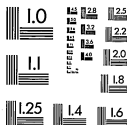




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Thomas A Edison Papers

A SELECTIVE MICROFILM EDITION

*PART IV
(1899-1910)*

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**Thomas A. Edison Papers
at
Rutgers, The State University
endorsed by
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**Edison Portland Cement Company Records
Plant Operations - Trouble Inquiry (1903)**

This folder covers the period October-December 1903 and consists of a series of preprinted forms with the title "Trouble Inquiry." Each form contains typewritten questions, suggestions, or criticisms by Edison concerning operations at the Stewartville works, along with responses and comments by other company employees. The documents are all initialed by Edison and some bear his handwritten notations.

Approximately 50 percent of the documents have been selected.

NOV - 4 1903

OCT 24 1903

Number 3

Charge Office

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Oct. 19th, 1903.

Mr. H. S. Moulton, Manager.

On Log Report of Oct. 14th, 1903.

Item 2.54 P.M. Department Chalk Plant

How long will it be before wiring on Blower motors will be changed and Portable starting box provided?

Please return this report when the work is done & in use.

OK W. H. G.

THOMAS A. EDISON, General Manager.

Referred to Mr. *Goodwillie* ^{10/16/03} for explanation.

The plugs and receptacles are being put in now and the wiring changed.

The D.P. and S.P. switches were ordered on the 13th inst but have not yet arrived.

It will take a day after arrival of switches to complete the work.

W. H. G. finished 10/31/03

New Village, N. J., 10/22 1903

W. H. G. Goodwillie

OCT 28 1903
OCT 20 1903

Orange Office
10/14/03

10-21-03

OCT 22 1903

Number 4

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Oct. 19, 1903.

Mr. H. S. Moulton Manager.

On Log Report of Oct. 18th, 1903.

Item 7 A.M. Department Clinker Fine Grinder

① Why was blower chutes cleaned on in Mill time with a loss of 35 minutes?

② How about shaking these baffle plates regularly & means to get to them with a portable ladder around, the original idea was to clean often

[Handwritten signature]

THOMAS A. EDISON, General Manager.

Referred to Mr. *Chinn* 10/21/03 for explanation.

① Baffle Plates Where Closed and Cement Lodged around Fan there is no walk up to get to lower to plates Baffle Plates

② I have made arrangements to have them channel - will use ladders from present 10-29-03 *EX-107*

New Village, N. J., Oct 21st, 1903

John O'Brien
Asst. H.S. Moulton.

OCT 28 1903
OCT 20 1903

Orange Office

001 23 34

Number 6

TROUBLE INQUIRY. Edison Portland Cement Company.

Orange, N. J., Oct. 19, 1903.

Mr. H. S. Moulton, Manager.

On Log Report of Oct. 14,

Item 3.40 P.M. Department Clinker Fine Grinder

Why did belt slip on 132 Conveyor? Could this not have
been foreseen? Ninety minutes is rather slow for fixing this belt
and how much more time was lost cannot be told by the log. You
stopped at 3.40 and Mill was shut down for the day. Please explain
this.

*Why did 132 conveyor belt slip caused this
not have been foreseen*

OK TAE

THOMAS A. EDISON, General Manager.

Referred to Mr. O'Brien 10/21/03, for explanation.

*Belt at #132 Can Slip Belt on Drive of #1 grinder
Slipped Belt Man did not get Belts done
as as could Run.*

Will Men Cleaning up Mill

New Village, N. J., 10-21-03 190

*O'Brien
Per W.H.M.*

OCT 31 1903

OCT 22 1903

Orange Office -
H. S. Moulton
10/2/03

Number 14

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Oct. 19, 1903.

Mr. H. S. Moulton, Manager.

On Inspector's Report of Oct. 16,

Item 2108 Department Inspection

Are flight bolts burred over?

- (2) Would not a little burring keep the nut from being lost & yet permit setting up nut


 THOMAS A. EDISON, General Manager.

Referred to Mr. _____ for explanation.

No. - Flight & clamp bolts are not wanted over any where. In fact it is frequently necessary to oil up these nuts. as the rope becomes smaller on wearing.

- (2) I think we will try cutting punching bolts on threads thus (this with answer the report)

10-29-03

New Village, N. J., Oct. 20th, 1903.

OCT 26 1903
OCT 20 1903

Orange Office

OCT 23 1903

Number 24

TROUBLE INQUIRY.

Edison Portland Cement Company

Orange, N. J.,

Oct. 21, 1903.

Mr. H. S. Moulton, Manager.

On Log Report of Oct. 22, 19,

Item 8.40 A.M. Department Clinker Fine Grinder.

Was it a new cable that broke and one with a proper splice?
How many hours did it run? Is the actual grinding time of cables

- (1) being recorded so we can learn something from any changes we may make?

- (2) *Mason. What is the reason that this rope lasted only 20 hours, what is the life of other ropes, please keep a record of crushing hours of each rope. This will not do as a regular thing -*

THOMAS A. EDISON, General Manager.

Referred to Mr. *Oliver* 10/23/03 for explanation.

- (1) *The cable was properly spliced the actual grinding time was 20.7 hours*

- (2) *We can always get the grinding time of a rope by the log as all changes of ropes are noted on log. I cannot explain this cause the rope broke in the splice. The one on now has been running about 10 days.*
10-29-03 W.H. Ham

New Village, N. J., Oct 26

190

OCT 22 1903

J. M. Davis

Orange Office

OCT 21 1903

OCT 27 1903

Number 26.

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Oct. 21, 1903.

Mr. H. S. Moulton, Manager.

On Log Report of Oct. 17.

Item 7.24 A.M. Department Chalk Plant

① Was the cable taken off a new one with good splice? How long has it run actual crushing time in hours?

② Keep a record history of each rope on Chalk & Cement. We can't do this.

THOMAS A. EDISON, General Manager.

Referred to Mr. Pinger 10/21/03 for explanation.

① The cable referred to was a new one - with long splice - Having ten splices by Mat Stuckner & others. The actual crushing time in hours, taken from Log Book, was 29.7 hrs.

② I think this was spliced by Dan Smith, any way it was not spliced by Stuckner. noted - see answer made to query 2. Shut up WAM.

New Village, N. J., Oct. 24 1903

Pinger.

OCT 29 1903

OCT 22 1903

OCT 24 1903

Number 28.

TROUBLE INQUIRY.

OCT 20 1903

Edison Portland Cement Company.

Orange Office

Orange, N. J., Oct. 21, 1903.

Mr. H. S. Moulton, Manager.

On Inspector's Report of Oct. 17th,

Item 2121 Department Inspection

Why do fields and armatures get dirty? Why not find the leaks?

Were Barnes men to have bellows & keep these fields clean during inspection that clears my understanding - are they provided with bellows or equivalent if done every day there would be no trouble.

THOMAS A. EDISON, General Manager.

Referred to Mr. Barnes 10/22/03 for explanation.

the cause of armature & fields getting dirty is due to the revolving armatures gathering the fine float dust from the air that comes through the gummy and in the door when opened and not from dust leaks as supposed

10/22/03
 2nd answer

The Gummy Chambers Cleaners and Inspectors are supplied with bellows (over)

New Village, N. J., Oct 22

1903

Arthur I. Barnes

OCT 28 1903

OCT 22 1903

[ON BACK OF PRECEDING PAGE]

and take advantage of every opportunity to clear up their morality.

W. H. H.

TROUBLE INQUIRY.

Department

Part

Nature of Trouble

that lack a sufficient
the good better informed
that some through the
during the first year
last in order to
the same of literature & fields of study

22 Feb

Arthur J. Brown

Orange Office

NOV - 9 1903

OCT 20 1903

Number 30.

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Oct. 21, 1903.

Mr. H.S. Moulton, Manager.

On Inspector's Report of Oct. 17,

Item 2123 Department Inspection

If this moves you will have trouble with shear devices and shaft bearings. Can you fix it?

(2) Please report what you decide about 2123 —

THOMAS A. EDISON, General Manager.

Referred to Mr. *Bitts*, 10/20/03 for explanation.

This can be fixed by Renewing the keys which are supposed to secure bearing in place. This would be quite a long job. Can be made secure with top Bolts to girders

we will try refitting keys
2 - over *W. H. H.*

New Village, N. J., Oct 23 1903

Ans Bitts

OCT 22 1903

[ON BACK OF PRECEDING PAGE]

it was found on examination that the spacing block on this side had moved somewhat as it was not very tight, this was set forward & extra Shimms put on top of pillow block so tops of shaft would clamp it. Seems to be all right now.

W.H.M.
11-4-03

TROUBLE INQUIRY.

Department

Part

Nature of Trouble

OCT 26 1903

Number 31

Orange Office

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Oct. 21, 1903.

Mr. H. S. Moulton,

Manager.

On Inspector's Report of Oct. 18.

Item 2126 *Chalked fine grinding* Department Inspection

So all of the Rolls both Chalk and Cement get hot? Did they formerly get hot?

*Ropes & chains
get hot**WRM*

THOMAS A. EDISON, General Manager.

Referred to Mr. *Joyner* 10/26/03. for explanation.*All of the ropes get hot when strands are
not properly laid in and ropes are dry.**Did not notice ropes getting hot in former
runs.**Are on drying ropes now
correct*

New Village, N. J., 10/24 1903

Mr. J. Joyner

OCT 22 1903

Orange Office

601 26 503
Number 32.

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Oct. 21, 1903.

Mr. H. S. Moulton, Manager.
On Inspector's Report of Oct. 18,
Item 2128 Department Inspection
I think Dope with graphite will help very much; an experiment
on 2 or 3 pair of wheels is better than theory.

*Roasters
oil system*

OK

THOMAS A. EDISON, General Manager.

Referred to Mr. *Radner* - 10/24/03 for explanation.

*Have used graphite mixed with
a little oil, looks very favorable,*

*If we can keep a coating of graphite
on rollers which, that will prevent
waster from rolling on bare metal
it will certainly preserve both,*

New Village, N. J., 10/24 1903

OCT 22 1903

certified

M. Radner

Orange Office

Number 37

TROUBLE INQUIRY.

OCT 30 1903

Edison Portland Cement Company.

Orange, N. J., Oct. 26, 1903.

Mr. H. S. Moulton, Manager.

On Inspector's Report of October 23rd,

Item 2192 Department

A number of good bolts in scrap pile to the left of Machine Shop.
Dilts, have some ONE attend to picking up bolts, etc. around Mill.

Think Rigger could do it.

Suggest a helper or yard man be provided with a basket
and a barrel and told to go all over the plant inside and out and
pick up all small things, empty in barrel and when full it is to be
taken to storeroom and good bolts etc. sorted out. You will
probably collect one ton.

W. G.
THOMAS A. EDISON, General Manager.

Referred to Mr. _____ for explanation.

*This has been done frequently
by one of riggers helped I've been
collecting several times. Don't
think it would pay to keep man at
it all the time. but will have it
done every now & then*

New Village, N. J., 10-28 1903

W. H. Moulton

OCT 28 1903

Writing Office

NOV - 15 1903

NOV - 23 1903

Number 38

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Oct. 26, 1903.

Mr. H. S. Moulton Manager.

On Inspector's Report of Oct. 23,

Item 2196 Department

Flights on Conveyor #118 catch on chute at rear end.

Will look into it.

1 - Report what is done to stop this.

2 - *Worn - would churning flanges on wheels help what?*

THOMAS A. EDISON, General Manager.

Referred to Mr. *Dayne* for explanation.

1 - *New struts have been put on which guides conveyor straight and does not allow flights catch on chute at rear end. The old struts were badly worn on thrust collar.*

(2) *This is not due to flanges wearing but to the old nature of thrust bearings in scraper conveyor. We are gradually replacing all scrapers with wheels that have large thrust bearing.*

W. H. - 11-25-03.

New Village, N. J., 10/31 1903

NOV 3 - 1903
OCT 28 1903

copy

M. A. Dayne

Orange Office.

NOV - 5 1903

167-23 1903

Number 39

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Oct. 26, 1903.

Mr. H. S. Moulton, Manager.
On Inspector's Report of Oct. 23,
Item 2197 Department
Several flat wheels on Conveyor #118. Cary, why have these
not been changed? (2nd notice)

Why was this not attended to?

1 (Mason - How about getting Chiefs flange
a tread to wheels - Σ

THOMAS A. EDISON, General Manager.

Referred to Mr. Cary, & others for explanation

1 We could not get Chiefs from
machine shop by 15th of Nov.
These wheels could not be sped because with the thick of men.
at that time we could not meet the demand and soon + just the
mill going at other points so as this could run it was delayed in
favor of other places which could not be neglected At Belter

2 (The Chiefs tracks would be OK. but we have so many other
wheels on hand that I think it cheaper to use them up. When we get
them it should be short of tracks. 10-28 11-5-03.

New Village, N. J., 10-28 1903

NOV 3 - 1903
OCT 28 1903

W. H. H.

Thomas Cary

Orange Office

NOV - 2 1903

Number 41

TROUBLE INQUIRY.

NOV 16 1903

Edison Portland Cement Company.

Orange, N. J., Oct. 26, 1903.

Mr. H. S. Moulton, Manager.

On Inspector's Report of Oct. 22,

Item 2188 Department

Inside temperature of Gummy chamber over 60 H.P. meter driving Conveyor 132, after running 9 hours 20 minutes, 115 deg. F. outside 74 deg. F. Barnes report to me.

1 (Either the fan is too slow or this chamber never was made large enough. Please report what is to be done about it.

2 *Barnes* Please report *Centrifugal* when new fan is in — THOMAS A. EDISON, General Manager.

Referred to Mr. *Barnes* for explanation.

1 (The fan in this chamber was not at home had it fixed. Gummy area 328 sq ft we are putting in extra fan paper as in other chambers of 50 horse power #109 & 100

2 Temptin with #2 fan blowing in outside air through crusher bag P. A. m. 60° 11 A. 80° 3 P. M. #2 temptin outside in open air 92

New Village, N. J., Oct 31st

1903

W. Barnes

NOV 3 - 1903
OCT 28 1903

W. Barnes
11-15-03

Orange Office

NOV 14 1903

1003

Number 43

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Oct. 26, 1903.

Mr. H. S. Moulton, Manager.
On Inspector's Report of Oct. 22,
Item 2189 Department Fields of motor driving Roaster No. 2 are very hot,
brushes sparking badly. Motor has been changed.

1) Why did fields get hot and brushes spark?

2) This explanation is all right to me go ahead & explain why fields of motor got hot - don't want to waste through a lot of back reports

THOMAS A. EDISON, General Manager.

Referred to Mr. Goodwin for explanation. 2 - Goodwin

This is inspectors report of trouble with motor which appears on log Roaster about Oct. 21 - 4:18. Cause is explained in sheet for that item See item #72

There was high bar in commutator which caused sparking and heating. As commutator could not be brought down to good surface had to change motors - see item #78

New Village, N. J., 10/29 1903

NOV 3 - 1903
OCT 28 1903

Goodwin
11-1-03

R.H. Goodwin

*Change
Office*

101 31 903

Number 44

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Oct. 26, 1903.

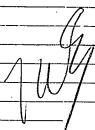
Mr. H. S. Moulton, Manager.

On Inspector's Report of Oct. 21,

Item 2159 Department

Commutator bearing of front equalizer runs hot. Carry, put flexible coupling on like flexible on skip car dump.

What is equalizer?



THOMAS A. EDISON, General Manager.

Referred to Mr. *Gov. Christie* 10/29 for explanation.

Equalizers are used so that the 250 volt power generators can be used for lighting. They are two 25 HP motors coupled together. They equalize the voltage at the lamps when there is a difference in load between the two sides of the three wire system. This enables us to shut down the small A & D Engines and run only larger ones.

New Village, N. J., 10/29 1903

W. H. L.

R. B. Goodrich

Orange Office

Number 46

TROUBLE INQUIRY.

Oct 30 1903

Edison Portland Cement Company.

Orange, N. J., Oct. 26, 1903.

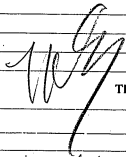
Mr. H. S. Moulton, Manager.

On Inspector's Report of Oct. 21,

Item 2169 Department ✓

Pieces of iron are breaking out of flange of 2nd shell from
rear end of Roaster. Noted.

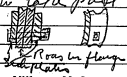
What is cause? Is it serious- will dope and graphite help out?



THOMAS A. EDISON, General Manager.

Referred to Mr. _____ for explanation.

Apparently caused by spongy casting. The soft part gasway + causes the solid part to fail or account of increased pressure per sq. in. It has become very bad. Serious within the last two or three days and we are fitting castings on out side of flanges to both part of the pressure. as per sketch



New Village, N. J., 10-28 1903

W. A. Edison

Orange office

NOV - 13 1903

Number 56

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Oct. 27, 1903.

Mr. H. S. Moulton, Manager.

On Inspectors Report of Oct. 20,

Item 2142 ✓ Department
Oil cups come off of one wheel on Conveyor 114. Cary.

1 Why do they come off? Why don't the foreman find these things out?

2 What is proposed for remedy?

THOMAS A. EDISON, General Manager.

Referred to Mr. Pinger for explanation.

1 The small cotter in screw head wears off. Small screw is not long enough, should be 3" long, so that end of screw will go at least 2" into hole in wheel. As the saw inside washer shrinks it allows cap to work until point of screw is worn away - Then cap easily unscrews.

These caps were found off by foreman and same reported to foreman of Oil Dept.

(2) None

New Village, N. J., Oct. 30 1903

Thaddeus is partly right but there are other reasons - see inspection report of 10-29-03

Pinger

NOV 3 - 1903

W. H. H.

[ON BACK OF PRECEDING PAGE]

(2) as was afterwards discovered there was an obstruction in the dust bin which would hit the plugs on oil cups. Sometimes + break sand mentioned in Purvis report. The oil now feeds washers. Sometimes in some cases + little cup gets loose there as it moves it wears out the fastening.

These scraper cones, which are very unsatisfactory any way. They have to be oiled very frequently and it takes a lot of time to keep them in shape, although there is not much time charged against them in the log reports. All of the scraper cones were gone over + oiled last week and now there are ^{some} which are squeaking on almost all of them. Of course part of this trouble is due to the thrust bearings within but that is not all of it. ~~So~~ you think we could get up some thing better.

W. H. M.
11-4-23

TROUBLE INQUIRY.

Department

Part

Nature of Trouble

Orange Office

NOV - 6 300

Number 56

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Oct. 27, 1903.

Mr. H.S. Moulton, Manager.
On 2144 Inspectors Report of Oct. 20,
Item Department
One chill shoe broken on front side of Conveyor 128. Cary

Why didn't foreman find this out?
There is no proof - but how can I know that
you knew of the fact?

THOMAS A. EDISON, General Manager.

Referred to Mr. Rader for explanation.

- What proof is there that he did not know it?
There were 8 or 9 broken and were once put since con. is running and this was replaced the same day.
- He claims that he did know of the broken chill shoe. 10/31 1903
New Village, N. J., 10/31 1903

OCT 28 1903

NOV 7 1903

M. Rader

Orange office

NOV - 5 1903

107-23 500

Number 59

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Oct. 27, 1903.

Mr. H.S. Moulton, Manager.

On Inspectors Report of Oct. 20,

Item 2145 ✓ Department

One bolt out of two clamps on Conveyor 128. Cary.

Why didn't foreman find this out? Foremen are paid to find these things out and not depend on the inspector. If they are permitted to rely on him to find everything, things will go bad.

Mason - What can be done to stop these troubles -

THOMAS A. EDISON, General Manager.

Referred to Mr. Rader for explanation.

He did find it out. The man in charge reports them to foreman soon after he finds them.

At the present time while I am writing this report the man in charge reports to me at 5:50 A.M. that (6) six come out since 9:30 P.M. so you see it is very trouble some, to keep them all in all the time.

2- (over) New Village, N. J.,

10/31 1903

OCT 28 1903

CONV -

M. Rader

NOV 3 - 1903

[ON BACK OF PRECEDING PAGE]

I am going to have all these strands marshaled into
a single bunch. This will prevent nuts coming
off, but it will be possible to take them off when
necessary. If bolts become a little loose clamped
with clip it will be useless. I do not think it
advisable to nut our bolts for it would be
an useless job to take care apart from new
rope.

W. H. H. 11-3-03

TROUBLE INQUIRY.

Department

Part

Nature of Trouble

Orange Office.

Number 80

TROUBLE INQUIRY.

OCT 30 1903

Edison Portland Cement Company.

Orange, N. J., Oct. 27, 1903.

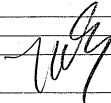
Mr. H.S. Moulton, Manager.

On Inspectors Report of Oct. 20,

Item 2146 Department

Will not patterns at front end of roaster No. 1, become
warped, they are piled up in a very reckless manner. This is only
temporary; think they are O.K.

Warped patterns are expensive.



THOMAS A. EDISON, General Manager.

Referred to Mr. for explanation.

*I realize this. Do not
think thing as unusual*

New Village, N. J., 10-28 1903

W. H. Murray

OCT 28 1903

*Orange
Office*

001 221 17

Number 61

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., 10/27/03/

Mr. H. S. Moulton, Manager.

On Inspectors Report of Oct. 20,

Item 2147 Department Cary.
One flight off of conveyor 128.

Why didn't foreman report this, he has men under him to watch the machinery; they are probably not told to look out for these things and report to him.

Mr. Moulton- please take this up and arrange that men report these things to foreman, also that foremen's duties are of an inspection nature. He is there to look ahead and find and have fixed the things which the General Inspector now finds for him.

I notice continuously that if a bearing needs canvassing, on Kiln, its always the Inspectors who call attention to it, whereas the foreman of the plant should attend to it. There seems to be a general misapprehension as to what the foreman of the plant is for and the Inspector's duties. The latter is generally speaking, to check the foreman and not primarily to find the troubles.

TH
THOMAS A. EDISON, General Manager.

Referred to Mr. *W. H. Moulton* for explanation.

The Foreman have been advised of the above. and we hope to have better results here after.

However, you must remember that many of these cars are reported to the proper people & repaired & you never hear of it. There are other cars which are reported but not repaired before inspection sustains them

New Village, N. J., 10-29 1903

W. H. Moulton
OCT 28 1903 *W. H. Moulton* This matter was taken up with the Foreman at our afternoon's meeting as day or two ago. *W. H. Moulton* 10/30/03.

*Orange
Office*

OCT 13 1903

Number 67

TROUBLE INQUIRY.

NOV - 9 1903

Edison Portland Cement Company

NOV 16 1903

Orange, N. J., Oct. 27, 1903.

Mr. H.S. Moulton, Manager.

On Log Report of Oct. 23,

Item 4-35 P.M. Department Roaster Plant #1.

Shut down on account of putting new brushes on Roaster Motor.

Why were new brushes put on roaster motor of No. 1?

Barms -
In our tests if you will remember, the Commutator got sparking & gave us trouble. We then got some Crocus & by using that occasionally the sparking stopped - We agreed at the time that if the Commutator had this treatment 2 or 3 times daily we would have no trouble with Commutators as the THOMAS A. EDISON, General Manager, Crocus checked at the start of the following the cutting & if you use Crocus right along

Referred to Mr. Barms for explanation.

When a motor sparks badly we find the only cure is to shut down & have it moved out from coupling clean commutators thoroughly & put on new set brushes. This cure fails to cure the trouble. we also find commutator cannot be cleaned properly while running hence the shut down which took about 30 minutes

New Village, N. J., Oct 29

DOED
Ad Barms

NOV 12 1903
OCT 26 1903

Orange - 102903

[ON BACK OF PRECEDING PAGE]

In our first test in Electrical dept we used
a stick coated with Crocus & could
clean Commutator perfectly & stop
spark while running - do you use
the stick with Crocus - I cannot
understand why it worked then
& doesn't work now - Σ

2-

2nd Reply Nov 13 # 03

TROUBLE INQUIRY.

Department

Part

Nature of Trouble

yes we use the stick with the crocus
and sand paper and we find the crocus
with a slight quantity of oil will keep a
Commutator in fine condition providing the
Motor is all O.K. but if you have
got a Motor with short circuit in armature
at the Crocus you can use will not clean
it up. Barnes

Orange office

NOV - 4 1903

Number 68

TROUBLE INQUIRY.

Edison Portland Cement Company.

001 80 102

Orange, N. J., ~~XXXXXXXXXX~~

Oct. 27, 1903.

Mr. H.S. Moulton, Manager.

On Log Report of Oct. 23,

Item 3.35 Department Roaster No. 2

Shut down- Tail brick fell out.

What is cause of tail brick coming out? I thought this

(1) had been fixed for good by inserting in the brick so as to protect from fire.

(2) Do you not think the trouble is due to down hill expansion of brick - if so cant see how anything will hold it without there is some expansion somewhere, as best of
THOMAS A. EDISON, General Manager.

Referred to Mr. for explanation.

I thought so too. but it seems that the heat makes the concrete down hill built + the brick has cast run. I've been forced it the best possible for a week job, and am getting out a pattern for a C.I. piece in the place

When we make new Roasters we should have this big cast in shell

New Village, N. J., 10-28

1903

(2) nothing holding anything in place was a reading by some brick to possibly - 10-31-03
written
11-2-03.

W. H. Mann

Orange office

NOV - 9 1903

Number 70

TROUBLE INQUIRY.

NOV - 2 1903

Edison Portland Cement Company.

Orange, N. J., Oct. 27, 1903.

Mr. H.S. Moulton, Manager.

On Log Report of Oct. 23,

Item 11-40 Department Clinker Fine Grinder

Shut down - Belt pulled apart on drive of No. 1/ Grinder. Waiting for belt man to lace belt and put it on.

1 - Why did it take 3 hours to replace belt on No. 1/ Grinder?

2 - (25 minutes to get the machine there strikes was slow - Cant this time be improved)

THOMAS A. EDISON, General Manager.

Referred to Mr.

Pilling for explanation 2. Pilling 11/4/03

The actual time on this job was 2.15 taken up about as follows

From time notified to getting the machine there 25 min
Repairing Belt 60
Putting on Belt 30
Taking up outside Belt 20

The time on other time Cards is given as 3 hours for the job, the extra 45 min over the above being taken in getting the tools away, and carting the Edging Machine back to place.

2 - New Village, N. J., Oct 29, 1903

NOV 26 1903

NOV 3 - 1903

loper

D 7 Pilling

[ON BACK OF PRECEDING PAGE]

The 25 min. referred to on the other side, does not seem to be understood. On a belt breaking as in this case, the first thing is a trip from wherever I may be found, to the fine grinder to examine the belt, & then a hunt for the trigger to cart the machine. ^{should the machine be needed} ~~from~~ the belt house to the fine grinder, I may find the team in 5 min or I may not find him for 30 min, it all depends where he is. again I may find the wagon loaded so that I have to go hunt for another wagon. anyway it is looked at. the time taken for this matter is purely a matter of circumstances.

Should the break be in the filler no machine is needed. but if in the long end of the belt, we need the machine there, and we are then dependent on others.

O Felling

TROUBLE INQUIRY.

Department

Part

Nature of Trouble

I am looking up some small hand trucks for the purpose + similar ones + think they will reduce such delays to a minimum.

W.H.M.
11-4-23

Orange office

NOV - 9 1903
Number 72

TROUBLE INQUIRY.

Edison Portland Cement Company. OCT 30 1903

Orange, N. J., Oct. 27, 1903.

Mr. E.S. Moulton, Manager.

On Log Report of Oct. 23,

Item 2-45 ✓ Department Clinker Fine Grinder

Shut down- Oil pipe broke on line shaft when belt pulled apart.

Miller did not find it out until we started to run. Waiting for

pipe men to fix it.

(1) Will Oil pipe break every time big belt breaks on No. 1
Grinder? If liable to be broken, can it be changed or protected?

(2) Mason - What are you going to do about it

THOMAS A. EDISON, General Manager.

Referred to Mr. Betts for explanation.

1 { The main supply pipe is
being changed & will be protected by braces in building,
the connections to oil filters will have to be
protected by some very substantial guard as the weight
of this belt running at 360 ft per minute will make
every thing except the most substantial structure

2 { we have changed main oil line lower head
and do not think belt breaking can affect it now,
it may break right back or oil cups at pump
but this should not cause any delay

New Village, N. J., Oct 29 1903

OCT 28 1903
W.H.H.

W.H.H. 14-03
As Betts

Orange office

Date - 23 JUL

Number 73

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Oct. 27, 1903.

Mr. H. S. Moulton, Manager.

On Log Report of Oct. 22,

Item 3-06 Department Chalk Plant

Shut down- Scraper conveyor 113 choked up, slow speed.

Why did it choke? There is something radically wrong
here. Investigate.

TAE

THOMAS A. EDISON, General Manager.

Referred to Mr. Purman *10/27/03* for explanation.

*This evidently is a mistake as we had
no trouble with Con. # 113 choking.*

*Am endeavoring every day to have a more
careful record kept in Log Book.*

New Village, N. J., 10-29 1903

OCT 28 1903

Letter

Purman
Am
working

Orange office.

NOV - 9 1903
Number 72

TROUBLE INQUIRY.

NOV - 13 1903

Edison Portland Cement Company.

Orange, N. J., Oct. 27, 1903.

Mr. H. S. Moulton, Manager.
On Log Oct. 22,
2-58 ✓ Report of Chalk Plant.
Item Department
Slow speed- Fuse blown head Con. 113.

Why did fuse blow on Conveyor 113, better investigate?

1 This conveyor if all free should take very little power and I am surprised that the fuse blew.

2 What was the trouble with the breakers that they had to be changed
are breakers changed, often, are they changed on
intermittently working motor when running
THOMAS A. EDISON, General Manager.

Referred to Mr. *Pingree* for explanation. 2- Barnes 11/4/03

1 The cause of fuse blowing (Mr Goodwillie states) was due to an accidental short circuit. Electricians were putting on new brushes, while motor was running, and brush slipped from hand of electrician letting the cable cross on two rings on yokes causing short circuit and fuse to blow.

(2) none

New Village, N. J., Oct. 29 1903

OCT 28 1903

NOV 3 - 1903

copy

Pingree

2nd Reply Nov 4, 03

As Barnes Ave

[ON BACK OF PRECEDING PAGE]

TROUBLE INQUIRY.

Department

Part

Nature of Trouble

2nd Replaf

Motors was sparking badly. Electricians
unwilling to put on brushes without checking
Roshin mill. Yes brushes are changed after
about four or five at once. we started mill
the ^{motor} has given us more trouble than any
other motors on the Plant, brushes cannot
be changed while running with safety
brushes are returned to Electrical Dept and reground
an end and used second turn. Electrical Dept
are ordering some new brushes and we hope to
find the kind that will ^{not} copper rock an end
same

107-100
#4-23

Orange office
no % to cover

Number 74

TROUBLE INQUIRY.

NOV -13 1903

Edison Portland Cement Company.

Orange, N. J., Oct. 27, 1903.

Mr. H. S. Moulton, Manager.

On Log Report of Oct. 21,

Item 10.00 Department Crusher Plant.

Waiting for speed, unable to start engine on centys. Loosening
frictions on giant rolls in order to turn engine.

Inability to start the engine in Crushing plant is beyond
my comprehension. How has it been done heretofore? Please run
this down because there is no apparent reason for it.

T. A. E.
THOMAS A. EDISON, General Manager.

Referred to Mr. *R. A. H. H. H.* for explanation.

*Rolls were adjusted. Engine, case
not start, when rolls are not open.*

*I understand the Rolls had all been
cleaned but something was jammed loose
fell in.
L. E. H.*

New Village, N. J., Oct. 28, 1903

OCT 28 1903

R. A. H. H. H.

Orange office

Number 75

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Oct. 27, 1903.

Mr. H.S. Moulton, Manager.

On Log Report of Oct. 21,

Item 11-03 Department Chalk Plant
Shear on grinders (Large dowel pin stuck fast in flange of drive)

1 Please explain cause of dowel pin sticking fast in flange after a shear on grinder.

2 Can this be prevented in the future

THOMAS A. EDISON, General Manager.

Referred to Mr. Purgason for explanation.

1 The cause for dowel pin sticking fast in this case - was that dowel pin had not been kept in proper condition. Having dirt and rough places on it and for some not oblige pin before driving into hole. Also driving pin too hard.

2 This pin had been handled carefully, do not acknowledge any responsibility from this case.

New Village, N. J., Oct. 29 1903

OCT 28 1903

NOV 3 - 1903

Coffey.

Purgason.
11-4-03

Orange office

NOV - 22 1903

Number 77

NOV - 9 1903

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Oct. 27, 1903.

Mr. H. S. Moulton, Manager.

On Log Report of Oct. 21,

Item 2.00 P.M. Department Roaster No. 1.

Shut down on account of packing ring and oil out of bearings 2nd and 3rd intermediate shaft.

Why did packing ring come out of 2nd and 3rd Intermediate shaft? Please investigate. Were others put in? Whose fault is this?

2 Cannot longer Callers be used, or something done to kill this bug -

THOMAS A. EDISON, General Manager.

Referred to Mr. Gary for explanation. 2 Moyer 11/4/03

These callers are controlled by oiling department after oiling and packing.

These pins frequently shear off after becoming considerably worn where they are subjected to considerable vibration.

See also Inquiry # 77-81

(2) from

New Village, N. J., 10-29 1903

OCT 28 1903

NOV 3 - 1903

Thos Gary
10-29-03
over

[ON BACK OF PRECEDING PAGE]

Have been drilling some holes larger
for cattle some of holes are out $\frac{1}{2}$ thread
and cattle will put legs in without drilling larger to
get both holes in line

lupin
11-4-03

M W Meyer

Oil Dept

TROUBLE INQUIRY.

Department

Part

Nature of Trouble

*Orange
Office*

OCT 27 1903

Number 96
100-10 1903

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Oct. 27, 1903.

Mr. H. S. Moulton, Manager.

On Log Report of Oct. 21,

Item 4-18 Department Roaster Plant No. 2

Shut down on account of hot motor, changing motors.

What is cause of hot motor and changing same?

*What are you going to do with this high bar
Can it be fixed*

THOMAS A. EDISON, General Manager.

Referred to Mr. A. H. Goodwicks for explanation A. H. Goodwicks

*There was high bar in commutator which
caused sparking and heating. As commutator
could not be brought down to good surface
had to change motor.*

1004

New Village, N. J., 10/29/03 190³

OCT 28 1903

A. H. Goodwicks

Orange office

TROUBLE INQUIRY.

Number 80

NOV - 2 1903

NOV - 9 1903

Edison Portland Cement Company.

Orange, N. J., Oct. 27, 1903.

Mr. H. S. Moulton, Manager.

On Log Report of Oct. 20,

Item 2-45 Department Mixing Plant

Shut down for hot bearing pinion shaft Conveyor 106.

What is cause of hot pinion bearing Conveyor 106?

2 How did the oil become exhausted
was there a leak in casing,

THOMAS A. EDISON, General Manager.

Referred to Mr. Lewis for explanation. 2 Moyses 11/10/03

The cause of this bearing heating was
lack of oil.

1 The oil had become exhausted until
the chain failed to supply enough to
properly lubricate the bearing, when it
immediately became very hot.
Had shown no signs of distress before.

(2) I did not get any report of this bearing over does
my log of Oct 20th show that any thing was done to the

New Village, N. J., Oct 29th 1903

OCT 28 1903

G. G. Lewis oil dept

NOV 3 - 1903

[ON BACK OF PRECEDING PAGE]

I made a mistake on this report
I did oil the bearing in question it does not
at the time and no trouble since very sorry to
have made the mistake

Asper
11-6-03

M W Meyer
oil dept

TROUBLE INQUIRY.

Department _____

Part _____

Nature of Trouble _____

Orange office

100-3 983 Nov - 3 1903
Number 81

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Oct. 27, 1903.

Mr. H. S. Moulton, Manager.

On Log Report of Oct. 20th,

Item 7-40 A.M. Department Roaster Plant

Shut down on account of third intermediate shaft bearing hot.

Why did 3rd Intermediate shaft bearing get hot? Probably explained by what occurred next day. Whose fault?

✓ Mason Please Explain this -

THOMAS A. EDISON, General Manager.

Referred to Mr. *Cary* for explanation.

Written does not clearly understand subject as referred to but thinks probably this trouble was due to an over heated motor on # 2 roaster drive.

I cannot find exactly what was the trouble here it seems that the bearing was looking green & was in oil & grease but that it had to be oiled again next day.

2 *(over)*

New Village, N. J., 10 28

1903

Thomas Cary

OCT 28 1903

NOV 3 - 1903

[ON BACK OF PRECEDING PAGE]

(2.) I am unable to find out just who is responsible or what the trouble was. It seems that the statement on Roanoke logging by some country reporter. Meyer had a heavy pack of oil bar. which had been leaking. I thought at first that it was a heavy that cany had changed & forgotten to notify oil man but I was mistaken.

WPKM
11-4-03

TRUBLE INQUIRY.

Department

Part

Nature of Trouble

Orange office

NOV - 9 903 NOV - 2 1903
Number 62

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Oct. 27, 1903.

Mr. H. S. Moulton, Manager.

On Log Report of Oct. 20th.

Item XXX 3-10 A.M. Department Roaster Plant

Shut down on account of putting on new brushes Roaster motor.

Why are we having so much trouble with Motors driving
- kilns? What's the amperage?

Is Crocus paper used by Barnes men - was Crocus
paper used in this motor, is all motor Commutator glazed
or only those not cleaned by Crocus paper - is this
glazing general -

THOMAS A. EDISON, General Manager.

Referred to Mr. James Walker for explanation. - Barnes 11/4/03

This is motor which was taken out next
day. As we have trouble with the carbon
brushes glazing over and forming a hard
surface we find we can stop sparking
by putting on new set of soft carbon. This
was done in this case.

The amperage of this motor varies
from 45 to 60 amps. which is only half
full load.

(2) New Village, N. J.,
written

10/29 1903

R.H. Goodwillie

Oct 28 1903

NOV 3 - 1903

over

[ON BACK OF PRECEDING PAGE]

TROUBLE INQUIRY.

Department

Part

Nature of Trouble

2nd Reply

Yes Crows paper is used by Motor Inspection
daily as as often as found Messengers Yes both
Crows & Land papers were used on this Motor
Yes the glazing of franchises on contact ends are
general this is the cause of shorting to some
extent we also find some of the Committee glass
over and would be please to have them
all do so as we find this is the Motor
that runs without troubles

Bam

Nov 4.08

border
11-4-08

*Assigning
Affairs*

OCT 13 1903

NOV - 10 1903

Number 84

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Oct. 28, 1903.

Mr. H. S. Moulton, Manager.

On Log Report of Oct. 24th,

Item 2-40 P.M. Department Roaster Plant

Shut down on account of thrust flange on cooler broke.

What caused thrust flange on cooler to break? Can it be fixed so this will not occur again?

2 *Whereas when you propose changes like this let me know - I want to keep track of all changes*

THOMAS A. EDISON
THOMAS A. EDISON, General Manager.

Referred to Mr. _____ for explanation.

1 *I think this was due to excessive expansion of the C.I. Ring & the W.I. shell. We have always had trouble with the bolts holding C.I. Ring to clips on shell. Coming loose we set the upright & shortly afterwards the bolts and on the other cooler on a loosening of the bolts snapped off. I have gotten out sketches of another Ring & am getting Ames on a Six Casting in 3 sections. So cooler will not have to be moved to running.*

New Village, N. J., 10 - 209 1903

2- (from)

lost

[ON BACK OF PRECEDING PAGE]

R I had only gotten out sketch & asked for prices
& lettered it one week or when in Orange last.
When such came and I will send you prints
hereafter

W. H. M.
11-6-03

TROUBLE INQUIRY.

Department _____

Part _____

Nature of Trouble _____

00131443

Number 85

*Change
Office*

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Oct. 28, 1903.

Mr. H. S. Moulton, Manager.

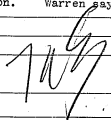
On Log Report of Oct. 24th.

Item Department Roaster No. 2.

Not running, on account of repairing retaining ring for nose brick on front end.

Was breaking of holder of nose brick due to expansion?

If so, nothing will prevent it in my opinion except a provision for expansion. Warren says you are going to use heavier belts.



THOMAS A. EDISON, General Manager.

Referred to Mr. for explanation.

Do not think it was caused by expansion but by the W.T. belts becoming very brittle & breaking from the strain caused by slight movement of brick. The same it took so long to repair it was in attempting to put back the ring which was 1" x 2" x 3" angle. It broke by the strain of drawing up one belt. The machine looks like C.T. with large chuytates. Can Remington out shell & will get some cashings to see what place

New Village, N. J., 10-24 1903

W.H. Mason

OCT 29 1903

Orange office

NOV 14 36 Number 86

NOV - 2 1903

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Oct. 28th, 1903.

Mr. H. S. Moulton, Manager.

On Log Report of Oct. 28th, 25th,

Item 7-48 Department Chalk Plant.

Shut down, repairing brush holders on motor of Con. 111.

What was repaired on brush holders of motor on Con. 111?

2 What has Mr. Goodwille to say regarding the time lost - 23 m

THOMAS A. EDISON, General Manager.

Referred to Mr. Barnes - for explanation. 2 - Goodwille

11/4/03

brush holders when not repaired. Sparks started became loose and the shut down was to tighten up same this should not have been then 10 minutes work was done by Electrical Dept.

Log is incorrect - brush holders were not repaired. Studs were loose causing brushes to tilt on edges and spark. After studs were tightened brush holders had to be reset with gauge which took more time than simply tightening studs.

New Village, N. J., Oct 30 1903

NOV 3 - 1903

OCT 29 1903

over.

[ON BACK OF PRECEDING PAGE]

We have discontinued, by testing in the laboratory, that the fiber washers on brush holder yokes shrink from heat, it is not very much but enough to loosen stud and make brush touch only on top which causes excessive sparking. The water tenders are tightening them up as fast as possible and they remain tight after being set up once or twice.

COITW
11-12-23

TROUBLE INQUIRY.

Department

Part

Nature of Trouble

Orange office

903 90
Number

TROUBLE INQUIRY.

NOV 16 1903

Edison Portland Cement Company.

Orange, N. J., Oct. 28th, 1903.

Mr. H. S. Moulton,

Manager.

On Log Report of Oct. 25th,

Item 2-40

Department

Crusher Plant.

Shut down- Repairing motor on conveyor 103. Putting new brushes
on motor.

Why was motor on 103 repaired in Mill time? Why was it
necessary to renew brushes? If necessary, why was it done in Mill
time, when there was two hours wait in the morning for ore? This
does not look right; please investigate.

Barnes Does your men on each inspection give
the Commutator a slight rub with the Crocus cloth? *Yes*
we agreed on - THOMAS A. EDISON, General Manager.

Referred to Mr. Barnes for explanation. 2 - Barnes
3 - Barnes

? because it required immediate attention
we find a lot of new brushes and cleaning
the commutator is the only cure for bad
brushing this was done in Mill time
because it had to be done at once
or let the motor go the he had again
it was not possible for inspection to
know the motor broke until after
starting up and running some time
as this motor is one of the last on
this route

(2) New Village, N. J., Oct 30

1903

NOV 12 1903

NOV 3- 1903

OCT 29 1903

over

Delay 15 minutes

[ON BACK OF PRECEDING PAGE]

③ It will do no harm to try the
Experiment, 2

3 O.K. will try some Experiments in the line
using sheep and combining even - with canvas and
also cotton to take up copper dust *Parnes*
3d Reply Nov 13 # 03

within
11-13-03

TROUBLE INQUIRY.	Department	
	Part	
	Nature of Trouble	

2- Not on every visit but often enough
to keep cobwebs in good running condition
we did not think it was necessary at every
visit but will have it done so if you
think necessary

Yours Parnes

2nd Reply
within
11-4-03 Nov 4 # 08

Orange office

NOV 13 1903 NOV - 2 1903

Number 92

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Oct. 28th, 1903.

Mr. H. S. Moulton, Manager.

On Inspectors Report of Oct. 24th,

Item 2203 Department

Oil leaks out of joint of thrust cap on motor driving 1st. 36" Clinker Crusher rolls. Moyer, see if you can fix it.

Did Barnes' man report this to Inspector, or did he miss it and leave it to be found by General Inspector?

Moyer - This was reported to your dept why is it not fixed or fixed right -

THOMAS A. EDISON General Manager.

Referred to Mr. Barnes for explanation. Moyer 11/4/03

Motor Dept did not report to Inspector but to Oil Dept this Motor has no oil leaks at this time. Also 11/2/03

- (2) On Oct. 24th the following was on inspection book. Oil Leak out of joint of thrust cap on motor driving 1st 36" Clinker Crusher rolls. Moyer see if you can fix it. On morning of 25th I was fixed and had not leaked any more. A slight leak at plug at bottom of oil well it was fixed and is all right now.

New Village, N. J., Oct. 30

1903

M. H. Moyer
Oct 30

A. Barnes

NOV 3-1903

OCT 29 1903

[ATTACHMENT]

Morris Jayne. Look
this up & report present
condition.

dox

11-4-03

[ATTACHMENT]

Double Copying #92 Inspection #11-2-03
The first leak was ^{motor} This was due to blow hole in
thrust cap which was stopped with red lead white lead
and glycerin the 2nd leak was in lead joint of thrust
cap which was secured up tight and stopped, the
3rd leak was in lead washer and bottom flange
which was secured up tight and lead bed stopped
This last leak was stopped on 11/4/03. Motor driving
Elc #127 does leak out of wool packing chambers of
commutator bearing this is due to shrinkage of fiber
washer on shaft which acts as an oillinger and
can be stopped by shutting down motor from four
to twenty minutes.

11/6/03

M. D. Jayne

~~lotter~~
11-10-03

Orange office

NOV -9 1903

NOV -9 1903

Number 93

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Oct. 28th, 1903.

Mr. H. S. Moulton, Manager.

On Inspectors Report of Oct. 24th,

Item 2204

Department

One bolt out of one flight clamp on Conveyor 122. Cary.

Could the men in charge have found this?

11/4/03
2
Jayne - hereafter find if the men in charge
knew of the things you find & have
reported to foreman. When put down item & say
previously reported to foreman by man in charge, this
will prevent nagging & irritating the foreman.
THOMAS A. EDISON, General Manager.

Referred to Mr. Radner for explanation.

Jayne not to sign.

1
Yes, & we always have
them put in the first stop
we make. In the
meantime the Inspector
comes along & discovers the
same trouble.

New Village, N. J., 10/31 1903

M. Radner

NOV 3 - 1903
NOV 23 1903

M. A. Jayne
11/4-03.

00134, 350

NOV -9 2003

Number 97

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Oct. 28th, 1903.

Mr. H.S.Moulton, Manager.

On Inspectors Report of Oct. 24th.

Item 2209 Department _____

Should there not be guards over bevel gears driving Cooler No. 1?

~~Yes, serv.~~

Why didn't Rader suggest this before the Inspector. He has the brains, let him exercise them.

2 Notice at first the chief of repairs had 18 men now he is cut down to seven - from that date to this the mechanical force has been increased from 54 to 58 - Do you think that is good distribution?

THOMAS X. EDISON, General Manager.

Referred to Mr. W. A. M. for explanation.

This had been ¹⁰ spread more than
once but then is a hint to the
account of work that can be done
by a certain number of men in a
given time

Paula took Paper man were getting low and was last night sleep
to increase it with night class of man but they were discharged
of having faster than I could supply them. It is somewhat
better just now

New Village, N. J.

11-6-03

W. H. Hansen

REV - 9 1903

OCT 21 1903

Number 100

*Orange
Office*

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Oct. 25th, 1903.

Mr. H.S. Moulton, Manager.

On Inspectors Report of Oct. 24th,

Item 2212 Department

Should there not be guards over drive of Roaster No. 1? Ordered.

Why didn't Rader suggest this before the Inspector? He has the brains, let him exercise them.

I find by reference to work book that you beat the inspector three days good for Rader

THOMAS A. EDISON, General Manager.

Referred to Mr. for explanation. *Rader*

"Ordered" means that an order has been issued for this work before this came in

New Village, N. J., 10-28 1903

W. H. Mason

OCT 29 1903

NOV - 4 1903

Number 101.

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Oct. 28th, 1903.

Mr. H. S. Moulton, Manager.

On Log Report of Oct. 26th,

Item 9-59 Department Crusher Plant.

Large rock stuck in hopper at giants. Removed by rolling smaller rocks in.

Why does Dan Smith allow his shovel man to land rocks in skip in such a way that they will get across hopper at Giants?

If they are long he can pull them in so they will fall right way.

At Edison when we got a long chunk in skip so it was liable to get across hopper, shovel man was trained and he chained it on the skip and swung it around right before it went to Mill.

THOMAS A. EDISON, General Manager.

Referred to Mr. Dan Smith. *WJS* for explanation.

my aim is to load these cars right - if a car has been loaded wrong by me I have not noticed it -

R. O. Young

New Village, N. J.,

11-2

1903

Lester.

Orange office

NOV - 5 1903

Number 106

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Oct. 29th, 1903.

Mr. H. S. Moulton, Manager.

On Log Report of Oct. 26th,

Item 7- A.M. Department Chalk Plant.

Taking up belt on grinder and fixing lighting wires and Oil pipes
caused by broken belt.

Why did it take over five hours to fix belt on Chalk
rolls?

Are we likely to have this again
in respect to Oil system,

THOMAS A. EDISON, General Manager.

Referred to Mr. Pulling for explanation.

The time on this job is 60 min. (see times and)
The damage occurred early in the morning and
the belt had been untangled and partly put on when
we started work was finished and ready to run at 8 Am.

The Oil Pumping - fixing up mid with covers
as lost the time.

No I do not think it will occur again as we are running
main up again. 11-5-03

New Village, N. J., Oct 31 1903

D. F. Pulling

NOV 3 - 1903
OCT 30 1903

Orange office

NOV - 5 1903

NOV - 23 1903

Number 109

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Oct. 29th, 1903.

Mr. H.S. Moulton, Manager.

On Inspectors Report of Oct. 26th,

Item 2216 Department

One bolt loose in small gear case of Conveyor ill. Gary.

Did the men on duty report this to Inspector or did

Inspector find it himself?

✓ Who should have found it.

THOMAS A. EDISON, General Manager.

Referred to Mr. ^{10/6/03} Thomas Edison for explanation.

✓ I found it.

2 It should have been found by Eugene man
in top floor of blown house
written 11-3-03

New Village, N. J., 10/31 1903

Edison

W. J. Fay

NOV 3 - 1903
OCT 30 1903

NOV - 4 1903

Number 110

Orange Office

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Oct. 29th, 1903.

Mr. H. S. Moulton, Manager.

On Inspector's Report of Oct. 26th,

Item 2217 *at system* Department

Small gear case over gears driving 1st. 36" Clinker Crusher Rolls,
is warm, evidently, gears are dry.

Did man in charge report this to Foreman? If not, why
not?

W.G.

THOMAS A. EDISON, General Manager.

Referred to Mr. Rader *10/30/03* for explanation.

Yes, he reported to me and I looked in case. Oil did not touch gears I oiled gears, I had some oil put in case during day.

New Village, N. J., 11-1 1903 *N. Rader*

W.G.

Orange office

Number 118

100-2452

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Oct. 29th, 1903.

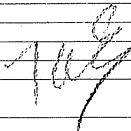
Mr. H. S. Moulton, Manager.

On Chemist's Report of

Item No. 19, Department

Cement has gone to 85.8, think it should not go lower.

Is O'Brien given these tests daily?



THOMAS A. EDISON, General Manager.

Referred to Mr. for explanation.

We try to keep the current at 90 but
sometimes it takes a drop without any
reason that can be discerned unless it
is the variation in the chiller.

A Brown gets 6 reports of tests per
day, and production is watched very
closely

New Village, N. J.,

10-29

1903

C. W. H. Mann

NOV - 4 1903

Number 125

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Oct. 29th, 1903.

Mr. H. S. Moulton, Manager.

On Log Report of Oct. 27th,

Item 12-50 Department Roaster Plant ✓
Shut down on account of fitting plates on roaster shell flange.

What is the meaning of fitting plates on Roaster shell

flange? Term not understood.

(2) If we know Saturday when you come to Lab how they are working

THOMAS A. EDISON, General Manager.

Referred to Mr. 106 for explanation.

Thin plates were put on to back up the flanges of the shell. They rest upon the shell & also run on friction wheels thus taking a large part of the load & reducing the pressure on the neck & bearings of the lower end are beginning to break. but they plates seem to help the matter very much.

New Village, N. J., 11-2-1903

W. H. Mason

Orange office.

NOV - 5 1903

Number 126

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Oct. 29th, 1903

Mr. H.S. Moulton, Manager.

On Log Report of Oct. 27th,

Item 2-22 Department Clinker Crusher

Shut down on account of cleaning and testing Con. 125 motor.

Why was it necessary to clean motor on 125 conveyor?

Do not the ^{gummy} chambers work? Is there much dirt? Don't understand this.



THOMAS A. EDISON, General Manager.

Referred to Mr. Barnum 11/3/03 for explanation.

This shut down was to clean motor and put in amp meter. Indicated showed only 10 amperes. See answers to item 2223 Oct 29, 03 # 112. Yes the gummy chambers work and this does not dust in other cases when the chamber is in a very dusty position this is some dust gets in the chamber with the air and is heated out the gummy daily this dust is blown into the

New Village, N.J., Nov 30 1903

W. H. W.

W. H. W.

ans

[ON BACK OF PRECEDING PAGE]

TROUBLE INQUIRY.

Department _____

Part _____

Nature of Trouble _____

Leakage due to section of fan we are
experimenting with outside and find it
a great improvement when we can draw it
from a cool place

Orange office

NOV - 5 '903

Number 127

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Oct. 23th, 1903.

Mr. H.S. Moulton, Manager.

On Log Report of Oct. 27th,

Item 3-05 A.M. Department Clinker Crusher.

Shut down on account of putting new brushes on motor of lower set
crusher rolls.

Why was it necessary to put new brushes on Motor of lower?

Also, if it was known they had to be changed, why couldn't it have
been done during the 50 minutes lost at noon? Please give full
report on this.

THOMAS A. EDISON, General Manager.

Referred to Mr. *Barnes*, 11/5/03 for explanation.

*because old brushes started badly
it would not be possible to force
the end of this shut down. It was known
earlier in the run as this motor wheel
expanding some times in no way dangerous
and the men must have been taking care in
the brushes to make it go bad probably
large chunks however the men used to
brush them out both in good working and*

New Village, N. J., Nov 3d

190

W. H. Barnes

OCT 31 1903

[ON BACK OF PRECEDING PAGE]

TROUBLE INQUIRY.

Department _____

Part _____

Nature of Trouble _____

Myself have impressed our men with the
fact that this mission change must
be made in much shorter time than
30 minutes rush more

Orange office

NOV - 6 1903

Number 128

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Oct. 29th, 1903.

Mr. H. S. Moulton, Manager.

On Log Report of Oct. 27th,

Item 12-20 Department Clinker Fine Grinder.
Belt pulling apart on drive of No. 1. grinder. Waiting for belt man
to fix belts.

What does Mr. Mason propose doing in re pulling apart
of drive belts so often? Is the larger wire in use, or has belt
hooks been used yet?

Please repair

THOMAS A. EDISON, General Manager.

Referred to Mr. for explanation.

*We have large wire but it breaks
too though not so fast as other wire.
We are putting all hooks on now
and if they prove satisfactory will
use them every where on heavy drives*

New Village, N. J.,

11-4

1903

H. S. Moulton

OCT 31 1903

Orange office

NOV - 6 1903

Number 132

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Oct. 29th, 1903.

Mr. H. S. Moulton, Manager.

On Inspectors Report of Oct. 27th,

Item 2245

Department

Elbow on oil drain pipe near centre of roaster No. 2, left side,
is plugged with cheesecloth. Meyer.

Who found this? Had in charge or the General Inspector?

Moulton - It is refreshing to find a man
who owns up.

THOMAS A. EDISON, General Manager.

Referred to Mr. Roden 11/3/03 for explanation.

Both men in charge of general inspector,
man in charge reported to me
at one time, I neglected having
it done (or fixed) just then and
finally forgot about it altogether.

Yes Sir. I too, admire the "George Washington" spirit for
truthfulness.

New Village, N. J.,

11/4

1903

M. Roden

NOV 12 1903

OCT 21 1903

Orange office

NOV 25 1903

NOV 11 1903

Number 134

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Oct. 29th, 1903.

Mr. H. S. Moulton, Manager.

On Inspectors Report of Oct. 27th,

Item 2247 Department

Three flight clamps have slipped on bond 122. Cary.

Who found this? Man in charge or the General Inspector?

- 1
- 2 *These should not have been reported
so as to be not record & then given out to
Repair dept & not direct*

Edison
THOMAS A. EDISON, General Manager.

OVER
Referred to Mr. *Rader* 11/10/03 for explanation.

- 1 *Man in Charge reported
this to Foreman who
reported to repair Foreman to
fix this the first stop
be made, that would*
- 2 *I do not think it necessary to have every small item like this
put on the work book.*
cc HME
11-10-03

New Village, N. J., 11-10 1903

NOV 20 1903

NOV 18 1903
OCT 31 1903

M. Rader

[ON BACK OF PRECEDING PAGE]

3- How could we ever improve anything if we didn't have every little trouble recorded - these things are invaluable -

3- I am making arrangements to have order blanks printed on which each farmer will notify the respective department of work to be done, these will be turned in to the office & written up. I think this will give us a very complete record of every thing that is going on

Copied
11-25-23

TROUBLE INQUIRY.

Department

Part

Nature of Trouble

Orange office

NOV 12 1903 NOV -6 1903

Number 138

TROUBLE INQUIRY.

Edison Portland Cement Company.

Oct. 29th, 1903.

Orange, N. J.,

Mr. H.S. Moulton, Inspector's Report of Oct. 27th,
2251 oil inspection
Item. Department
Several idler bearings dry on Con. 104 Moyer.

Did Pilling's men find and report this?

- 2 ~~Mr. Moulton~~ - Don't you think Pilling ought to have another man who can go around and inspect for him - I am sure it would pay us. **THOMAS A. EDISON, General Manager.**

Referred to Mr. Pilling, 11/2/03 for explanation.

- 1 When I am inspecting a Conveyor, the first thing I look for is the alignment & tension of the belt, the angle rubbers rubbing on idlers, the guide pulleys clearing as much as possible, the condition of the joint covers, the fuel running of the idlers etc. If I find a stuck idler I either adjust same, or report to the oil man if dry, if the rollers are worn I report to the repair dept. I have one man and a helper, and I do not expect them to inspect any thing, if they did it would be an excuse for many delays on the work assigned.
- 260 New Village, N. J., 190

NOV 12 1903
OCT 31 1903

[ON BACK OF PRECEDING PAGE]

to them. of course they are expected to report
any thing of the kind that they see. but I do not
expect them to hunt for these things to the neglect
of our own work.

This answer is for 138-139-140,

Nov 4-1903 O. F. Pelling.

2- It seems to me that the
commissary should be pretty well
covered by the mill men - But man
might be man - will form
& animal suspect. If these
men attend to their work there
should be no reason for adding
another man.

If you want an additional
man added to this department
please advise

W. H. U.
11-12-03

TROUBLE INQUIRY.

Department

Part

Nature of Trouble

Number 142

TROUBLE INQUIRY.

Edison Portland Cement Company. NOV - 3 1903

Orange Office

Orange, N. J., Oct. 29th, 1903.

Mr. H.S. Moulton,

Manager.

On Report of

Item Department

Would like to know about the 12 men in Motor department,
just where employed, ^{the} if there is included in this number any
Carpenters?

*Cross Examined. Is this a bona fide Trouble Inquiry? Athens?
Then refer to Mr. Edison's letter of the 29th of October, and my public
letter, dated November 2nd, 1903, in re this matter. T. A. Edison, N.Y.*

THOMAS A. EDISON, General Manager.

Referred to Mr. for explanation.

*Criticism OK - should have gone
as letter of inquiry*

New Village, N. J., 190

OCT 31 1903

Orange office

NOV -5 1903

Number 145

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., October 31, 1903.

Mr. H. S. Moulton Manager.

On Report of

Item Department

Please ask Kaufman if Condensing water should not be ejected at a higher temperature than an average of ninety degrees, especially as we have to go to the expense of pumping the water up a considerable height. I have always understood that 120 degrees was about right, but I may be mistaken in this.

THOMAS A. EDISON, General Manager.

Referred to Mr. Kaufman 11/5/03 for explanation.

When engines are running with light load the condenser pressure can have a 5 to 10 lbs. which is just enough to heat water to boiling degree. When engines will run with full load condenser temperature will be much higher. Temperature at present is 90 degrees. I am sure if we close at more pump will lose vacuum.

New Village, N. J., Nov 3 1903

I have already had this matter up with Mr. B. of Am. Ice Co. in room for improvement. I am at this time. 11-5-03

NOV 2 - 1903

Orange office

NOV -5 1903

Number 155

TROUBLE INQUIRY.

NOV 16

Edison Portland Cement Company.

Orange, N. J., October 31st, 1903.

Mr. H. S. Moulton Manager.

On Inspector's Report of October 28th, 1903

Item 2267 Department

One belt loose in rear intermediate thrust bearing of Clinker

Grinder No. 1. Cary, tighten it; what is the matter with lock?

Did O'Brien find this out or was it the General Inspector?

O'Brien should teach his men

THOMAS A. EDISON, General Manager.

Referred to Mr. O'Brien - 11/2/03 for explanation. 200mm

it was the inspector that found it

it is not because I have not tried to teach them. But men are beyond it and good men are not so easy to get in my kind of the plant

New Village, N. J., Nov 3 190

copy letter 11-15-03

NOV 12 1903
NOV 2 - 1903

Orange office

NOV 22 20

Number 159

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., October 31st, 1903.

Mr. H. S. Moulton Manager.

On Log Report of October 28th, 1903.

Item Clinker Fine Grinder Department

1.57 Shut down- Switchboard tender turned drum switch handle the wrong way, made short circuit 13

Can't it be arranged so switch tender can't turn handle the wrong way?

THOMAS A. EDISON, General Manager.

Referred to Mr. Good. Warren, 11/3/03 for explanation.

No. This was that way once & it was impossible to go from full speed to slow speed and run on slow speed without shutting down. Now plant can be run on slow speed and also shut down without blowing fuses.

All trouble of late has been caused by green switchboard man but they are learning to handle switchboard and don't anticipate further trouble

New Village, N. J., 11/12

1903

W. H. S.
11-12-03

A. H. Fortinchi
A.K. W. H. Warren

NOV 2 - 1903

Orange office

NOV 27 1903

NOV - 5 1903

Number 160

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., October 31st, 1903.

Mr. H. S. Moulton Manager.

On Log Report of October 28th, 1903.

Item Glinker Fine Grinder Department

2. 12 Shut down- Elevator No. 131 blew fuse. 4

1 Why did elevator 131 blow fuse?

2- Cannot switch be arranged so it can't be turned the wrong way?

THOMAS A. EDISON, General Manager.

Referred to Mr. H. S. Moulton 11/3/03 for explanation. ^{2- Lord & woman} ^{2-3- Kauffman}

- 1 Switch Board handles turned down switch handle the wrong way at switch board handle short circuit & blew fuse at #131 Elevator. We did not find it out until we started again.
- 2 No - This was that way over + it was impossible to go from full speed to slow speed and run a slow speed without shutting down. Now plant can be run at slow speed and also shut down without blowing fuses. all trouble of late has been caused by green switchboard men but they are learning to handle switchboard and do not anticipate further trouble. Emmons & Mann

New Village, N. J., Nov 7 1903

NOV 20 1903
NOV 12 1903
NOV 2 - 1903

copy
11-16-03

J. A. Edison

[ON BACK OF PRECEDING PAGE]

3. Most of the troubles in the S.
 starting up apparatus ~~which~~ has
~~been~~ right along to attributed
 to green switch board men - are they
 ever do get something, as the trouble
 due to changing man

3. The man standing
 switch board at Green
 machine is not a green
 man. When this first
 then it was caused by
 misunderstanding between
 switch board man and
 Engineer. As Engineer had
 already shifted switch
 during switch board man
 absence and when he came
 back he shifted switch again.

W.H.M.
 11-24-05

J. R. Johnson
 Nov 22nd 1905

TROUBLE INQUIRY.

Department

Part

Nature of Trouble

Orange office

NOV - 5 1903

Number 162

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., October 31st, 1903.

Mr. H. S. Moulton Manager.

On Log Report of October 28th, 1903.

Item Department

Would you not grind as much cement in 40 hours with five or ten pounds
less pressure on rope, as you do now with belt and shear pin delays?

AM

THOMAS A. EDISON, General Manager.

Referred to Mr. O'Brien 11/3/03 for explanation.

i have tried it The Pressure Does not seem
to Change it i think that it is the Platin
They are too Hooking They take to severe a
hold on the Load the old Platin was more of
a Rolling grind The Platin is Hang on now
and Worn off They have 80 Pounds Pressure on them
they are Worn Now about like the old ones
if i do not keep the Pressure up i have to blow
blow down to get Percentage as Platin are
Worn and i Would not Be getting out hardly any ore
Chamberlain about full

New Village, N. J., Nov 3

190

NOV 27 1903

Orange office

NOV 14 1903

NOV -6 1903

Number 163

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Nov. 2, 1903.

Mr. H.S. Moulton,

Manager.

On Log

Report of Oct. 29th,

Item

Department

Quarry

I notice for last 11 days average feet drilled in Quarry
124 feet. How many drillers is Smith employing?

2 This mean 4 Drill Runners & 14
helpers does it not?

THOMAS A. EDISON, General Manager.

Referred to Mr. Dan Smith, 11/4 for explanation.

1 These drill runners, some times,
if we arranged the holes at a certain
time we put up an extra drill to
see them, but only employ four drill
runners. The drillers must clean off
benches for drilling before they can
drill also repair trucks and do all
other general work, which is had
other men to do the other work.
Four drills steady will keep things going

New Village, N. J., 11/4

190-3

Arthur

D. Smith

NOV 12 1903 1-5-03
NOV 3-1903

over

[ON BACK OF PRECEDING PAGE]

2- give 4 dull runners & 4 helpers,

W. H. H. H.
11-12-83

TROUBLE INQUIRY.

Department

Part

Nature of Trouble

Orange office

NOV 25 1903

NOV - 9 1903

Number 73

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Nov. 4th, 1903.

Mr. H. S. Moulton, Manager.

On Report of

Item Department

Please report what is being done about indicating our engines and a regular schedule of cards taken and figured out by Kaufman?

Are not the Engineers in charge capable to show us percent of taking cards at stated intervals if the suggestion is placed for them THOMAS A. EDISON, General Manager.

Referred to Mr. for explanation. 2 Kaufman

1 We have had a good many cards taken from each engine & figured up. but at present the man who assists Kaufman in this work is in charge of the power dept. engine as soon as we can get a man for this place we will have cards taken regularly.

2 The Engineers are watching always assist in taking cards.

New Village, N. J.,

11-6

1903

W. H. Moulton

NOV 20 1903
NOV 12 1903
NOV 5 - 1903

[ON BACK OF PRECEDING PAGE]

If you only want cards. I saw how the last
 of the. ~~but~~ I thought you would like to see the disapproval
 worked up on each. We have a machine shop from an even
 & will be able to turn out the man who has been acting as shop
 foreman to the Power department in a few days.

W.H.M.
 11-16-03

3. Mason - At Edison Engineers in charge of Engine
 snapped his indicators several times a day
 & Chief would take them home twice a week
 & work out power - We did
 this regularly & located ~~lots~~ of
 bad things in mill by them

TROUBLE INQUIRY.

Department

3. I have made arrangements to send you
 the reports on the power of all the engines in the mill
 twice a week. We will keep the cards here
 If this arrangement is not satisfactory
 and you want reports of them please let
 me know

W.H.M.
 11-23-03

Orange office

NOV 10 1903

Number 175

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Nov. 4th, 1903.

Mr. H. S. Moulton, Manager.

On Inspectors Report of Nov. 1st,

Item 2314 Department

Filter cup support very loose on rear intermediate bearing of Chalk Grinder, due to thread being stripped on ear screw securing same. Dits.

- 1- Who first found this? *W. G.*
- 2- I think the foreman of the plant himself or through his men should find these things. They have only a section which the Inspector has. THOMAS A. EDISON, General Manager. The whole plant to be inspected.

Referred to Mr. *Purque* 11/13 for explanation. *2 Purque*

- The Inspector - I understand that*
- 1- This was reported on Friday Oct 30th and a second report just in Nov 1st.
- 2- all right - We shall improve

New Village, N. J., 11-7 1903

Purque

NOV 18 1903

NOV 5- 1903

W. G.
11-9-03

W. G.
11-16-03

Orange office

NOV 10 1903

Number 178

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Nov. 4th, 1903.

Mr. H. S. Moulton, Manager.

On Inspectors Report of Nov. 1st,

Item 2317 Department

Plate looks on cap screws on Chalk Grinder are wearing heads of screws and make a hideous noise. Mts.

1- What found this first?

2- ~~Let~~ Suggest foreman train his men to
look out for these things ~~and find~~ ~~power~~
a

THOMAS A. EDISON, General Manager.

Referred to Mr. Pugh 11/7/03 for explanation. 2 Pugh

1- The Inspector

2- It is being done. It takes time to
train these men to think of more than
one thing.

New Village, N. J., 11-7 1903

NOV 18 1903

11-9-03

11-16-03

Pugh

NOV 5-1903

Orange office

NOV 12 1903

Number 179

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Nov. 4th, 1903.

Mr. H. S. Moulton, Manager.

On Inspectors Report of Nov. 1st,

Item 2318 Department

Would suggest a trial of residuum oil in oil cups on conveyor wheels. Moyer, try this.

That is the oil we used at Edison; supposed it was always used on Scrapers and elevators as it is the only oil that will stay in.

THOMAS A. EDISON, General Manager.

Referred to Mr. Moyer, 11/10 for explanation.

Oil all wheels on conveyor 118 on Nov 2nd with residuum oil and so far it has done very well

We will use this kerosene on all oil wheels had been using kerosene before
W. H. Moyer

New Village, N. J., Nov 7th 1903

W. H. Moyer
11-10-03

W. H. Moyer

NOV 5-1903

Orange office

NOV - 5

Number 180

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Nov. 4th, 1903

Mr. H.S. Moulton, Manager.

On Inspectors Report of Nov. 1st.

Item 2319 Department

Would suggest that when any plate bolts become loose on rolls, that bolts, nuts, and loose plate be taken off of roll and cleaned thoroughly. Dilt's, see that dirt is thoroughly cleaned out between plate and arbor before bolts are set up, in order that bolts will not become loose from dirt jarring out after setting.

Is this Cary's job or Dilt's, or does order go to Cary through Dilt's?

THM

THOMAS A. EDISON, General Manager.

Referred to Mr. for explanation.

This is Cary's job. Mr. Moulton marked off this thing and as the work would be turned over to Cary - it was not changed.

New Village, N. J., 11-6 1903
W. H. Mason

Orange office

NOV - 9 1903

Number 183

TROUBLE INQUIRY.

NOV 16

Edison Portland Cement Company.

Orange, N. J., Nov. 4th, 1903.

Mr. H.S. Moulton, Manager.

On Inspectors Report of Nov. 1st,

Item 2323 Department

1 - Wheels on Conveyor 114 are dry and run hot. Moyer

Who first found this out?

2 - Is thick dope being used on wheels — Yes sir

THOMAS A. EDISON, General Manager.

Referred to Mr. Purque 11/5/03 for explanation. ² Moyer

1 - Wheels on this conveyor were all oiled Oct. 27 at night by oilman.
Three wheels do not run over stone or four days until they scratch, seemingly dry.
Do not know who first found this out as it is almost a continual trouble with these conveyors — and has been, I am told, ever since it was first started.

New Village, N. J., 11-6 1903

copy
11-6-03

Purque

NOV 12 1903

NOV 5 - 1903

Ans. to # 2 - see memo side.

[ON BACK OF PRECEDING PAGE]

Wheels on conveyor No 114- were oiled
complete on Oct 28th with crank oil. We are now
oiling all with sardium oil. Conveyor will be oiled
to day if clock hand says its long enough.

Nov 13th 1903

M M Meyer
Oil Dept

It was oiled with sardium oil today

-C. H. H.
11-13-03

TROUBLE INQUIRY.

Department

Part

Nature of Trouble

Orange office

NOV 12 1903

Number 191

TROUBLE INQUIRY.

NOV 16

Edison Portland Cement Company.

Orange, N. J., Nov. 4th, 1903.

Mr. H.S. Moulton, Manager.

On Inspectors Report of Oct. 31st,

Item 2304 Department

1 The sides of several flights on Con. 118 wear hard on front side of trough over check bin No. 1. Dits.

Who reported this first?

2 I thought we were to cut these flights
I remember that a pair of clamp cutters
were proposed to do it in place at Tail
pulling - What does Mr. Edison propose -
THOMAS A. EDISON, General Manager.

Referred to Mr. Rader 11/5/03 for explanation.

The Inspector

1 Flights on Con 118 never did
clear the side of trough. They
would slightly touch and where
while running.

Then flights are too wide for trough. Some of them
are punched a little center & when leaving of wheel
run against rail. Most all of them will slide on one side or
the other. Dangerous to have them cut off.

2. New Village, N. J., 11-10 1903

Office

M. Rader

NOV 18 1903
NOV 5-1903

[ON BACK OF PRECEDING PAGE]

I remember discussing the cutting off of flight on engine
con #128 but this was abandoned when we decided to use
chilled slides instead of wheels and it seems to be all right
in the particular now.

We have a lot of extra flights for con 118 and I could have
them cut to size in shop & then substituted for those
that are too large on con 118, as we have the opportunity
that I have in the ground test & cheapest way of doing it.

Leffers
11-13-63

TROUBLE INQUIRY.

Department _____

Part _____

Nature of Trouble _____

Orange office

Number 195 NOV 10 1903

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Nov. 4th, 1903.

Mr. H.S. Moulton, Manager.

On Inspectors Report of Oct. 31st,

Item 2309 Department

Oil leaks badly out of joint of flexible drive bearing next to motor driving roaster No. 2. Moyer.

Who reported this first?

2 Are leaks reported by Barnes men sent promptly to oil left
THOMAS A. EDISON, General Manager.

Referred to Mr. Barnes 11/7/03 for explanation. 2 Barnes

1 Cannot say I know we have repaired oil leaks on this machine previous to this date but would not mention it was the machine bearing

2 Yes Barnes 11/14/03

New Village, N. J., Nov 7th 1903
W. H. Barnes

NOV 13 1903

NOV 7 - 1903

NOV 5 - 1903

W. H. Barnes
11-9-03 11-14-03

Orange office

Number 19 003
202

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Nov. 6th, 1903.

Mr. H.S. Moulton, Manager.

On Log Report of Nov. 2nd,

Item 9-58 Department Chalk Plant
Shut down for electricians to clean commutator and put brushes on
motors of Cons. 112 & 113.

Why was it necessary to clean commutator and put new
brushes on 112 Con? I could understand it if it was 113 & 114
which Mr. Mason promises to shore up to stop vibration, but 112
Con. I can't understand.

2 Will Mr. Warren investigate this trouble &
report -

THOMAS A. EDISON, General Manager.

Referred to Mr. Barnes 11/10 for explanation. 2 - Warren

1 Note checked badly today I cannot
say as everything went but that we
have to clean up com & put on new
brushes frequently for often as every
24 hours the only idea I can suggest
is Barnes looks at the same
trouble account of #125 we changed
motors and the Busat motor is doing
much all O.K. without a spark

New Village, N. J., Nov 7 1903

NOV 18 1903

NOV 7 - 1903

2. see review held

[ON BACK OF PRECEDING PAGE]

Motor is running O.K. now
since putting on new graphite
brushes.

Bulbages of flexible coupling
have worn very loose on studs due
to center of armature shaft
and counter shaft being out
of line. This causes
some vibration of
motor.

W C Warren

Will have motor reset.

lophu
11-1603

TROUBLE INQUIRY.

Department

Part

Nature of Trouble

Orange office

NOV 11 1903

NOV 24 1903

Number 204

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Nov. 6th, 1903.

Mr. H.S. Moulton, Manager.

On Inspectors Report of Nov. 2nd,

Item 2329 Department

Cast iron "A" frames supporting gears driving roaster No. 2 spring badly, this probably is the cause of teeth breaking in pinion. Suggest, look up and see what can be done to brace it.

Who found this out?

2- Will Mr. Payne please inform Mr. Moulton
I will see what the factor of safety
is and report if break is due to weakness
of strain mensely
THOMAS A. EDISON, General Manager.

Referred to Mr. Pader 11/11/03 for explanation. 2 Payne

1- I seen this Oct 9th went to the
tool room and brought wrench &
tighten anchor bolts.

This Slight Spring in Frame
is not the cause of Pinion teeth
breaking its the working strain that
broke pinion

Got home and should have seen
when

New Village, N. J., 11-10 1903

W.H.E.
11-10-03

W.H.E.
11-18-03

T.A. Edison

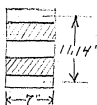
NOV 13 1903

NOV 7 - 1903

2- See answers made on reverse side.

[ATTACHMENT]

Double Inquiry # 204 11/14/03. Answer # 2



21 R.P.M.

14 TEETH

3 1/2 CIR. PITCH.

Ultimate stress of cast-iron 50000 lbs.

Ultimate # at this stress = 117.

Apparent # developed in running motor = 16.

Apparent factor of safety = 7.3

Apparent stress 6400 lbs.

The thickness of broken tooth 1 1/8" which is the correct thickness of tooth for 2 1/2" Cir. pitch. Showing that little wear had taken place, the frame supporting these gears is not much heavier than belt conveyor frames, the first tooth broke only half out of pinion, this indicates that tooth did not lose whole length, the strength of frame would cause gears to be out of line.

M. S. J. J. J.

Orange Office

NOV 14 1903 NEW 1263 003

Number 210

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Nov. 7th, 1903.

Mr. H.S. Moulton, Manager.

On Log Report of Nov. 4th,

Item Department Crusher Plant

Crushed 119 cars cement Rock-Placed in Bin No. 2

1. Why were only 119 cars cement sent to Crusher? Does stock get wet on sides of Bin? Are you going to grout it with cement?
2. Log of CP sent here says 118 Cars sent to CP

THOMAS A. EDISON, General Manager.

Referred to Mr. Pingree W. H. Smith for explanation.

1. There is no record on Log of number of cars sent to Crusher Plant from Grinding. (But we only crushed 119 Cars owing to the fact that 3 or 4 Bells were being repaired.)

Stock does get wet from sides of Bin
I am having it cemented today.

New Village, N. J.,

11-12 1903

W. H. Smith

Orange office

NOV 12 1903

Number 211

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Nov. 7th, 1903.

Mr. H. S. Moulton,

Manager.

On Log

Report of Nov. 4th,

Item 7-00

Department Chalk Plant

1 Blowing out bearings on Chalk grinder, oil holes plugged with wool.

What is proposed to prevent wool getting in Oil holes of grinder?

2

Have Mr. Moyer talk with Gump of 4
numbers right felt washing machine failure
in Motors & elsewhere - 3

THOMAS A. EDISON, General Manager.

Referred to Mr. Moyer 11/10/03 for explanation.

1

I am packing them a little different
than what they have been.
Namely, I close fitting ring or felt cut out
just enough to clear hole & then 300 grammes
of wool then another good fitting ring or felt.
I would suggest a piece of Gage of about
1/2 inch over hole from behind to secure hole

We will follow Suggestion

10 Nov

New Village, N. J., Nov 10 1903

1903

NOV 13 1903

Office
11-10-03

Mr. Moyer

Oil sept

NOV 9 - 1903

[ON BACK OF PRECEDING PAGE]

I have been over this with Meyer & Payne we did find
the felt washes a failure every where. But I think that thing
give better results here than the wool alone. Now use two
two felt washes with wool between them

CO. H. M.
11-16-23

TROUBLE INQUIRY.

Department _____

Part _____

Nature of Trouble _____

Orange office

NOV - 2 1903

NOV 14 1903

Number 212

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Nov. 7th, 1903.

Mr. H. S. Moulton, Manager.

On Log Report of Nov. 4th,

Item 3-00 Department Clinker Fine Grinder

Shut down - Elevator No. 131 would not pull the load and blew fuse.

Have we got proper fuse block on Elevator 131 Motor?

2- Can it be possible that the Eng'rs do not understand how to make a fuse block that will work satisfactorily - There is something wrong somewhere - THOMAS A. EDISON, General Manager.

Referred to Mr. Cordweller 11/10/03 for explanation.

1- The fuse block is double pole ampere capacity 200. mounted on slate base manufactured by Gen'l Elec Co cat no. 25529. The spacing of the metal parts is suitable for a 250 volt circuit. The full load current of the 50 HP motor at elevator 131 is 190 amperes.

2- I have taken it all apart and found cups very dirty. This would cause bad contact & heating.

New Village, N. J., Nov. 10 1903

R. H. Cordweller

NOV 16 1903

NOV 9 - 1903

11-12-03

11-20-03

Orange Office

NOV 14 1903

NOV 20 1903

Number 214

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Nov. 7th, 1903.

Mr. H.S. Moulton, Manager.

On Log Report of Nov. 3rd,

Item 12-80 Department Crusher Plant

Engine on centre. Loosening frictions of giant rolls in order to turn engine over.

1 Do you have to start giants with bars? If so, I cannot understand why engine will not turn over. What is the friction load?

2 Mason & Chubb friction logs about right, our giants had 70 H.P. friction load about.

THOMAS A. EDISON, General Manager.

Referred to Mr. Pogue & Kaul for explanation.

We always use bars to start Giant Rolls.
Disagree

1 Friction Load of Moulton was 140 H.P. of which 43 is E.H.P. When rolls were not engaged engine was always started.

This seems to be excessive. Will have power taken for each roll when we have an opportunity.

2 New Village, N. J., 11-11 1903

Edison
11-12-03

T. A. Edison

NOV 18 1903
NOV 9 - 1903

#2 - see revised note

[ON BACK OF PRECEDING PAGE]

2- *Noted*
Let them
11-18-63

TROUBLE INQUIRY.

Department _____

Part _____

Nature of Trouble _____

Orange office

NOV 13 1903

Number 215

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Nov. 7th, 1903.

Mr. H.S. Moulton, Manager.

On Log Report of Nov. 3rd.

Item 8-46 P.M. Department Chalk Plant

1- Governor did not work.

What was the matter with the Governor?

2- Will Mr. Purges man be instructed to inspect & oil governor - *[Signature]*

THOMAS A. EDISON, General Manager.

Referred to Mr. Purges 11/10/03 for explanation. ² Purges

1- From appearance - Dust and lack of oil was the cause of this. Governor not acting.
Am having a door placed on top of casing, around Governor, so that mechanism can be oiled.

2- Yes

New Village, N. J., 11-11 1903

NOV 13 1903 W.H. [Signature] 11-11-03 11-16-03 Purges

Orange Office

NOV 30 1903

Number 220

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Nov. 7th, 1903.

Mr. F.S. Moulton, Manager.

On Inspectors Report of Nov. 4th,

Item 2354 Department

The space between front intermediate roll shaft and packing gland
in bearing is .01" evidently bearing has worn considerable. Noted.

How much has bearing worn as shown by packing gland?

What is the supposed cause of this wear when the bearing only has
the weight of the roll on it?


THOMAS A. EDISON General Manager.

Referred to Mr. Jayne 11/10/03 for explanation.

This measurement was taken from outside
packing ring and may not be correct. Here
after when oil men pack these bearings
I will take measurement from inside
packing ring which will be correct and
will be entered in inspectors report. Most
of the wear in bearings I think is due to grit
None of the bearings I have ever been taken
apart so that the inside condition can be
seen.

New Village, N. J., 11/26 1903

W. D. Jayne
11-27-03

W. D. Jayne.

Orange Office

NOV 12 1903

Number 228

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Nov. 7th, 1903.

Mr. H.S. Moulton, Manager.

On Inspectors Report of Nov. 4th,

Item 2359 Department

One bolt loose in one plate on rear giant roll. Gary, tighten up and lock.

Who found this out?



THOMAS A. EDISON, General Manager.

Referred to Mr. Pingree 11/10/03 for explanation.

Undoubtedly the Inspector, as I know nothing of a bolt being loose at this time & I have found several loose since.

New Village, N. J., 11-10-1903

W. H. Coker
11-11-03

Pingree

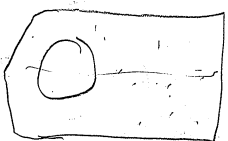
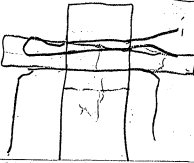
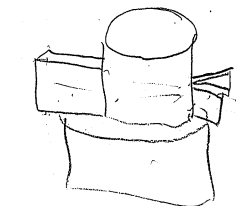
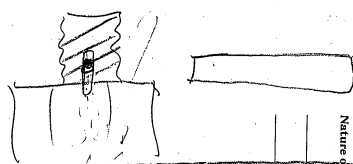
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TROUBLE INQUIRY

Department

Part

Nature of Trouble



Orange office

11-2-03

Nov 28 1903

Number 224

TROUBLE INQUIRY.

Edison Portland Cement Company.

Nov. 7th, 1903.

Orange, N. J.,

Mr. H.S. Moulton, Manager.

On 2363 Inspectors Report of Nov. 4th,

Item Department

Rear thrust flange of roaster No. 2 has started to crack, not cracked around shell but similar to flange on roaster No. 1 at rear end. Rader, look into this and report.

- 1- Who found this out?
2- Is this serious

THOMAS A. EDISON, General Manager.

Referred to Mr. Rader, 11/10/03 for explanation.

#1- I noticed this Nov 1 but could not tell whether it was old or just started. Two days later saw a slight change but before I reported the trouble the inspector found it.
Rader reported this to me before I saw inspection report.

New Village, N. J., 11-20 1903
Rader
11-21-03

NOV 9-1903

#2 - see reverse side

[ON BACK OF PRECEDING PAGE]

after this flange began to crack. (it was one of the supporting
flanges which was turned off to act as a thrust too) I had the
sectional flange for the span thrust shells bolted to
the old cracked thrust flange which was braced by
W.I. braces. it has been running since then
the way is without trouble.

W. I. I.
1130-23

TROUBLE INQUIRY.

Department _____

Part _____

Nature of Trouble _____

Orange office

DEC - 15 1903

Nov 24 1903

Number 229

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Nov. 7th, 1903.

Mr. H. S. Moulton, Manager.

On Inspectors Report of Nov. 4th,

Item 2373 Department

A guard wanted over gears driving Cop. 122 dangerous. O. K. Cary.

1- Anybody else know of this, or reported it?

2- Has it been fixed

[Signature]

THOMAS A. EDISON, General Manager.

Referred to Mr. Rader 10/24/03 for explanation. *2. Hoffman 11-20-03

1- This was unnecessary to report, because it was a well known fact, and as to dangerous no more so than anywhere else where there ^{are} open gears.

2- This has been fixed

[Signature]

New Village, N. J., 10-20 1903

[Signature] 11-21-03
[Signature] 12-2-03

[Signature] Rader

Orange office

DEC-2 1903

NOV 24 1903

Number 233

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Nov. 7th, 1903.

Mr. H.S. Moulton, Manager.

On Inspectors Report of Nov. 4th,

Item 2378 - 2379 Department A
Level gears driving Con. 178 are dry. Rader, keep them doped. 2378
Gears driving Con. 178 are dry, no gear case. Rader, dope. 2379

Who first noted this?

WY

2. Why was this inquiry Eleven days
in the office - hereafter have them go
out the next day - *if it cant be done*
THOMAS A. EDISON, General Manager.
I will route them myself

Referred to Mr. Rader 11/10/03 for explanation.

1. Men in Charge were instructed not
to oil or dope these gears so much
so coal dirt would accumulate in
or between teeth, as coal dirt packs
very hard and is dangerous to gear.
But probably they were dry beyond
the limit at the time of inspection.

New Village, N. J., 11-20 1903

loftus
11-21-03

K. Rader

NOV 9 - 1903

#2 - see serial 126

[ON BACK OF PRECEDING PAGE]

#2 - These sheets are first need by me. Have the original and duplicate are
pinned together and passed to the Bureau, promptly as they come to
me from Orange. H.S. Wootton 11/4/02

I cannot give any reason for these sheets having been
so long a time in getting to Mr. Rader. It may have
been misplaced on my desk. In all cases I attempt
to return as promptly as possible.

As to your sending them I think it is my place
to do the work and make things right.

W.H.
11-20-02

TROUBLE INQUIRY.

Department

Part

Nature of Trouble

Orange office

NOV 14 1903

10:20 AM

Number 235

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Nov. 7th, 1903.

Mr. H.S. Moulton, Manager.

On Inspectors Report of Nov. 4th,

Item 2385 Department

Filter cup on rear ~~and~~ right bearing of clinker grinder No. 1 is very loose. 3rd. Notice. Dilts & Cary, how about it?

Why was a 3rd notice necessary?

Just two
Why did not notice go on Dilts Book
[Signature]
THOMAS A. EDISON, General Manager.

Referred to Mr. Dilts - Cary, ^{11/11} for explanation.

The first two notices did not appear on my book consequently did not know it was loose until 3rd notice which is on my book. AMB 11.03

Large number of same important jobs & capacity of help I was responsible for the defect in getting this tightened so tight it would not move loose. 2 bolts worked with this but were on these filters and not hold. The first chance

New Village, N. J., 11/11 - 1903

Thus long

Over

NOV 18 1903

NOV 9 - 1903

#2 - see reverse side.

[ON BACK OF PRECEDING PAGE]

TROUBLE INQUIRY.

Department _____

Part _____

Nature of Trouble _____

1. We had after discovering this fact we locked both
with washers clinched against bracket & bolt heads.

We are having $\frac{3}{4}$ " bolts put in place of $\frac{1}{2}$ " as the
half inch bolts seem to be too light for the work.

This Govt

2. This was supposed to be only a case of setting up & loosening at first
later I had given directions to have the longer bolts put in. & then
took it up with Ditts also. Ditts probably had never seen the report
on these ships.

copy
11-18-23

Orange office

NOV 14 1903

NOV 24 1903

Number 242

TROUBLE INQUIRY.

Edison Portland Cement Company.

Nov. 10th, 1903.

Mr. H.S. Moulton, Orange, N. J., Manager.
On 9-23 Log Report of Nov. 6th,
Item Shut down- 250 volt generator running hot. Crusher Plant
Department

Why did the large generator run hot?

Why not refer this inquiry to man responsible instead of first answering it

THOMAS A. EDISON, General Manager.

Referred to Mr. T. Kaufman for explanation.

This was reported wrong Should have been - "bearing on 550 Volt generator running hot". This was a generator which had just been put in and belt was too tight. The men set it up tighter than necessary in order to prevent it stopping and having an accident similar to the one of the previous day.

New Village, N. J., 11-12- 1903
W. H. Mason

NOV 18 1903
NOV 12 1903

Orange office

NOV 14 1903

Number 248

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Nov. 10th, 1903.

Mr. H. S. Moulton, Manager.

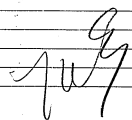
On Log Report of Nov. 6th,

Item 11-45 Department Chalk Plant

Why was Mill time used to tighten clamps on 113? Loss six hours.

Mill was not running on night of Nov. 4th, couldn't it have been

done then? (11-45 Tightening bolts on rope clamps Con. 113)



THOMAS A. EDISON, General Manager.

Referred to Mr. _____ for explanation.

On Nov 4 the mill was down from a night off and on Nov 6 there was sufficient stock on hand to shut down 6 hours without interfering with output and it seemed to me to be the cheapest way to get the down was to have all the mill run put at it under the pretenses of the change of repairs. Otherwise it would have had to stop a lot of the day before and as there are not enough men on in night repair crew to do it quickly.

New Village, N. J., 11-12 1903
W. H. Mason,

NOV 12 1903

Orange office

NOV 25 1903

NOV 17 1903

Number 250

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Nov. 10th, 1903.

Mr. H. S. Moulton, Manager.

On Log Report of Nov. 6th,

Item 8-40 Department Clinker Crusher

Started up and shut down on account of short circuit on Motor Con.
128.

1- What was the nature of the short circuit on Con. 128 motor?

2- Can anything be done in the way of
Looking to prevent this in the future

2nd Question not answered. - THOMAS A. EDISON, General Manager.

Referred to Mr. Barnes 11/13/03 for explanation? Goodwill

1- Electrical Dept had sent an
new set of brushes this A.M.
Motors ran all day O.K. but at
night had the short circuit due
to one of the brush leads becoming
loose and after set screw on brush
holder falling against wire frame
and to the short circuit

New Village, N. J., Nov 13 1903

NOV 23 1903

NOV 19 1903

NOV 12 1903

#2. See answer made to previous letter.

[ON BACK OF PRECEDING PAGE]

TROUBLE INQUIRY.

Department _____

Part _____

Nature of Trouble _____

#2-

This is first time we have noticed brush head
to come loose in this way and think if beam
are screwed up tight there will be no trouble
we have more trouble with other end of brush
head becoming loosened from brush. cannot see
how this can be remedied at present, cannot see
occure of tick due to bad speaking

2nd answer
Nov 23rd/03

Barnes

NOV 19 1903

Orange office

Number 256

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Nov. 10th, 1903.

Mr. H. S. Moulton, Manager.

On 2389 Inspectors Report of Nov. 5th,

Item Department

Oil leaks badly out of sight glasses on large generator in Chalk Plant. Meyer, make glass tight.

Who first noticed this?

- 2- Does Kaufman man have charge of the generator if so should he not have seen it has he been instructed as to his duties. This is discouraging that men having so little to do cannot acc. report such things.

THOMAS A. EDISON, General Manager.

Referred to Mr. Kaufman 11/10/03 for explanation. 2 Kaufman

- 1 Inspection
- 2- This sight glass was leaking slightly and I instructed the man in charge to make glass tight when glass was not running. It is necessary to let oil down below bottom of glass to make it tight when

New Village, N. J., Nov 13th 1903

NOV 20 1903

NOV 12 1903

11-16-03

[ON BACK OF PRECEDING PAGE]

should not be done with damage
 running. There is a repair tank
 kept in the power dept in
 which all repairs to be made are
 put down, but it is sometimes
 necessary to delay such repairs as
 sight glass leaking, until a permanent
 job can be made, so it will not
 have to be done over again, which
 would be the case if it was
 patched up in a hurry.

See page 103
 Nov 22 1903

W.H.C.
 11-24-03

TROUBLE INQUIRY.

Department

Part

Nature of Trouble

Orange office

NOV. 25 1903

Number 260

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Nov. 10th, 1903.

Mr. H. S. Moulton, Manager.

On _____ Inspectors Report of Nov. 5th,

Item 2393 Department

One bolt very loose in rear right spacing roll retaining collar
of chalk grinder. Cary, rivet over washers.

Who first noticed this?

- 1- *Is There is lots of shut down when rollers etc are not put in that men could go over & report such things*

THOMAS A. EDISON, General Manager.

Referred to Mr. *Puiguen* 11/10/03 for explanation. *Puiguen*

- 1- *The Inspector*
Inspector is on roll on his job at noon when we shut down for lunch and examines rolls every day. Also night Inspector the same.
Whenever we have a shut or catch it replaces it. Whenever all men for this. However Inspector finds that loose bolt.
These defects cannot be found while running.
- 2- *Yes. Roll men are now taking advantage of this stop.*

New Village, N. J., 11/1/03 1903

copy
11-16-03

copy
11-23-03

Puiguen

NOV 20 1903

2-

NOV 12 1903

Orange office

NOV 17 1903

NOV 20 1903

Number 262

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Nov. 10, 1903.

Mr. H. S. Moulton, Manager.

On Inspectors Report of Nov. 5th,

Item 2398 Department

Top vertical shaft bearing of shaker is worn about 1/2" larger than shaft due to no oil. Dilts, get extra casting Pingree Oil.

Why didn't Pingree notice this and report?

Suggest Pingree carry a little bag in his pocket - get bag of things clean

THOMAS A. EDISON, General Manager.

Referred to Mr. *Pingree* 11/13/03 for explanation.

I did notice this late in P.M. of Nov 4th. But neglected to report - on account of looking after other troubles in Ball's Plant.

New Village, N. J., 11/13 1903

Pingree.

NOV 19 1903
NOV 12 1903

Orange office

NOV 12 1903 NOV 24 1903

Number 265

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Nov. 10, 1903.

Mr. H. S. Moulton, Manager.

On Inspectors Report of Nov. 6th,

Item 2401 Department

Several nuts are very loose on rear thrust stand of roaster #1.
Rader.

Who first noticed this?

2. Will not Mr Rader instruct all his men
+ tell them what to look for + how to do it
once they are trained some trials of our troubles
will disappear

THOMAS A. EDISON, General Manager.

Referred to Mr. Rader 11/6/03 for explanation. 2. Rader 11-30-03

- The inspector
man in charge did not try
them as there were no indications
for them to be loose.
Man in charge has been instructed
to take a hammer and go around
occasionally and turn all nuts to
find these troubles.
- #2 - Men are all instructed what + how to
look for all these troubles, other side.

New Village, N. J., 11-20 1903

Cotton 11-21-03 Wether 11-20-03

Rader

NOV 12 1903

[ON BACK OF PRECEDING PAGE]

TROUBLE INQUIRY.

Department _____

Part _____

Nature of Trouble _____

- 2- Men in charge are no trained mechanic's and don't see things as soon as they will after getting acquainted with all details. Men have improved to a great extent since starting. I am sure,

11-24-03

V.P. Rader,

Bring office

Number 271

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Nov. 10, 1903.

Mr. H. S. Moulton, Manager.

On Inspectors Report of Nov. 6,

Item 2410 - 2416 Department

Two pipes lying on electric wires in main tunnel under Con. 100.

Goodwillie.

Who is responsible for putting pipes on wires? Does

Goodwillie inspect the wire system at all? See item #2416-

same connection (2410- Would suggest something to prevent chalk-

piling up on electric wires under chalk grinders. Filling, look up

and report.) *Stringaphone Conn. should have been changed*

TH
THOMAS A. EDISON, General Manager.

Referred to Mr. Goodwillie 11/10/03 for explanation.

These pipes have been laying in tunnel near cables for a long time. - small pipes apparently no use. Cannot find out who threw them on wires.

Cables in main tunnel are inspected twice a day and heavy plants, step ladders etc laid down found against cables and removed. There is a printed order, ^{placed} at intervals in tunnel forbidding anyone except electricians to touch the cables.

New Village, N. J., 11/16 1903

W. H. Hill
11-16-03

R. H. Goodwillie

NOV 12 1903

Orange office

NOV 17 1903

NOV 17 1903

Number 276

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Nov. 11, 1903.

Mr. H. S. Moulton, Manager.

On Inspectors Report of Nov. 6th,

Item 2417 Department

Piston rods in air cylinders of grinding rolls get very dry and dirty. Pingree & O'Brien, have them oiled.

Who noticed this first? Why shouldn't cylinder have oil?

Mason - What do you think of Pingree's
suggestion -

THOMAS A. EDISON, General Manager.

Referred to Mr. Pingree & O'Brien, 11/13/03 for explanation.

The Inspector. This should also have been
seen by Roll man & also myself.
Roller certainly should be oiled - But
there is no provision made for doing so.
Would suggest that a different style of gland
be used so that packing may be kept adjusted to
piston rod better. Also that an oil cup be
placed on top of stuffing box to oil rod stem
packing. Dust collects on rod and cuts out
packing rapidly.

New Village, N. J., 11/13 1903

Pingree

NOV 19 1903

NOV 12 1903

Manager's Office

NOV 30 803

NOV 17 1903

NOV 20 1903

Number 277

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J.,

Nov. 11, 1903.

Mr. H. S. Moulton, Manager.

On 2419 Report of Nov. 6th,

Item Weight on door of gummy chamber over large generator in linker
Department grinding plant sticks fast to box that guides weight. Barnes.

- 1- Who noticed this first?
- 2- Could not men in charge have noticed this?
2nd Question not answered.

[Signature]
THOMAS A. EDISON, General Manager.

Referred to Mr. Kaufman 11/13/03 for explanation. 2 Kaufman

- 1- Inspector
- 2- When this was reported man in charge & myself examined guide & weight and failed to find that it stuck fast.

[Signature]
Nov 22 1903

New Village, N. J., Nov 13 1903 1903

NOV 23 1903

NOV 19 1903 11-13-03

NOV 12 1903

Orange office

NOV 17 1903

Number 278

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Nov. 11, 1903.

Mr. H. S. Moulton, Manager.

On Inspectors Report of Nov. 6th,

Item 2422 Department

Would suggest guard over shearing couplings on feed roll shafts in R.S.M. tunnel dangerous. Dilts, wood covers, this is an old order.

Why couldn't this have been done before, you had carpenters, some have been laid off?

THOMAS A. EDISON, General Manager.

Referred to Mr. *Dilts*, 11/12/03 for explanation.

This does not appear on my books except on Nov-7th-03 + has been attended to. I have a recollection of hearing this discussed a long time ago but that was in the present regime.

New Village, N. J., Nov 13 1903

copy
11-13-03

For Bell

NOV 12 1903

Orange office

NOV 17 1903

NOV 13 1903

Number 279

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Nov. 11th, 1903.

Mr. H. S. Moulton, Manager.

On Inspectors Report of Nov. 6th,

Item 2424 Department
Nut on one brush holder stud on motor driving Con. #106 is not
wired. Barnes.

Who noticed this first? Was it Barnes' Inspector?

*I suggest Malar don't keep a book at end
month see which Inspector has worst record
than if find it might be advisable to
get a new man to fill the place.*

THOMAS A. EDISON, General Manager.

Referred to Mr. Barnes 11/13/03 for explanation.

Thomas Edison

*Due to my own negligence to me
I am when he cleaned Com and
fixed Photos up at night*

New Village, N. J., Nov 13 1903

At Barnes

NOV 19 1903 11-13-03
NOV 12 1903

Orange office

NOV 17 1903

Number 281

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Nov. 11th, 1903.

Mr. H. S. Moulton, Manager.

On Inspectors Report of Nov. 7th,

Item 2428 Department

Dust leaks in gunny chamber over motor driving Con. 128 through
a crack in motor base. Barnes.

Why did not Barnes' Inspector find this out?

*Barnes I know your men find the majority
of troubles & fix them of which I never
hear of - but its the things I do hear
of that I ask about*

THOMAS A. EDISON, General Manager.

Referred to Mr. *Barnes* 11/12/03 for explanation.

*it is quite possible he did in fact
see find and repair these cracks
on both defects which never got
an the Inspectors Report*

New Village, N. J., Nov 13 190

NOV 19 1903
NOV 12 1903

copy
11-13-03

W. Barnes

Orange office

NOV 17 1903

NOV 17 1903

Number 285

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Nov. 11, 1903.

Mr. H. S. Moulton, Manager.

On Log Report of Nov. 8th,

Item 8-30 Department Chalk Plant

Cleaning out chute to rolls, ore damp.

Was damp ore caused by wet sides to chute?

What is called damp ore is probably ore with excess of fines and too much shuttling off chalk feeds for few minutes at various times, this will give blowers chance to clean it. I think would increase total output notwithstanding loss of time.

THOMAS A. EDISON, General Manager.

Referred to Mr. *Pugh* "11/13/03 for explanation.

I think not. As ore was from four to six feet deep on sides of Binocular. The ore was upright and placed in stock house on day previous.

New Village, N. J., *11/13* 1903

NOV 19 1903
NOV 12 1903

Orange office

NOV 30 1903

Number 288

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Nov. 11th, 1903.

Mr. H. S. Moulton, Manager.

On Log Report of Nov. 8th.

Item 1-59 Department Clinker Grinder

Shut down - Belt slipped on Con. 132, this belt was reported to be taken up last night, the belt was left in proper place to be taken up as was No. 143, and they were not taken up.

Whose fault was it that belt of Con. 132 was not taken up?

2-

Mason, see about this - I don't know we do not want belts taken up if they don't need it because somebody always has to be to wrong service -

THOMAS A. EDISON, General Manager.

Referred to Mr. Pilling 11/13/03 for explanation.

Regarding the above, my claim is that I was never asked to take up Con. Belt 132. Although the foreman of the plant claims that such was the fact. And I further wish to be put on record as stating that 132 did not need taking up, even when done on the above date.

Con. 143 was not taken up because it did not need it, and in my opinion it will not be necessary for two months, and the longer it can run at present the better for the belt.

New Village, N. J., Nov 13 1903

O. F. Pilling

DEC 2-1903
NOV 20 1903

NOV 12 1903

[ON BACK OF PRECEDING PAGE]

the taking up of the belt was mentioned at the Saturday meeting. I was in charge. It seems that Mr. Dilling did not get it straight.

- 2- It seems that this belt is ships yet unless it is very tight & have given directions to report to me the next time it fails to turn so I may see the condition.

W.H.M.
11-27-23

- 3- Mr. Mason will please take steps to stop slipping of this belt, it has slipped since this report, if there is no remedy let me know at once.

Part
Nature of Trouble

Department

TROUBLE INDICRY.

Edson

- 3 The Chief Engineer had a sketch & was getting out material necessary for making a change which will give about 10 or 15% more wrap on the pulley - this will go in the first opportunity. If it does not seem to trouble will advise you.

W.H.M.
12-4-23

NOV 20 1903

Number 289

TROUBLE INQUIRY.

Edison Portland Cement Company.

Nov. 11th, 1903.

Mr. H.S. Moulton, Orange, N. J.,
 Manager.
 On Log Report of Nov. 8th,
 2-40 Clinker Grinder

Item. Department
 Shut down- Elevator No. 131 blew fuse, fuse blocks very hot. Waiting
 to get spill from under tail pulley No. 131 elevator.

Are fuse blocks on Elevator 131 of the proper kind? This
 report of fuse block getting hot has been made before and same
 question asked. It would be easy to have a home made block that
 wouldn't get hot.

WJ

THOMAS A. EDISON, General Manager.

Referred to Mr. Good & Warner ^{11/13/03} for explanation.

At midnight Nov. 10th I took the fuse block
 apart and found that considerable dust
 had made bad contact between the wire
 terminal and fuse block which would cause
 heating of the parts in contact. Since
 then the fuse block has not heated to
 any extent

New Village, N. J., 11/25 1903

Edison

NOV 12 1903

11-25-03

Orange office

Number 290

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Nov. 11th, 1903.

Mr. H. S. Moulton, Manager.

On Log Report of Nov. 7th,

Item 7-00 Department Crusher Plant

Waiting for speed- Running slow speed, trouble with fuses blowing
in switchboard in Engine House No. 1.

Why did fuses blow in engine house and no load on belts?
What was the matter with switchboard?

THOMAS A. EDISON, General Manager.

Referred to Mr. Goodwillie 11/13/03 for explanation.

Nothing the matter with switchboard. Trouble
caused by green switchboard man.
Being notified of the trouble, I operated
switchboard myself and found apparatus
O.K. Instructions are being posted at
each switchboard so that anyone by
following them can properly operate board.

New Village, N. J., 11/16 1903

NOV 12 1903

Attest
11-16-03

R. H. Goodwillie

Orange office

NOV 17 1903

Number 291

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Nov. 11, 1903.

Mr. H. S. Moulton, Manager.

On Log Report of Nov. 7th,

Item 9-36 Department Crusher Plant

Stop feed- Bearing loose on 3d set 36" rolls.

Why did bearing get loose on 3d 36" rolls? Were any adjustments made just before they got hot?

THOMAS A. EDISON, General Manager.

Referred to Mr. *Pingree* 11/12/03 for explanation.

I think main cause was due to excessive strain and vibration, caused by bad condition of wobbler. This bearing did not get hot. But one on front right side of gear case did. Cause - the excessive end thrust of collar on end of bearing on account of condition of wobbler.

New Village, N. J., 11/13 1903

10 PM
11-13-03

Pingree.

NOV 12 1903

Orange Office

NOV 27 1903

Number 820

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., NOV 13 1903

Mr. H. S. Moulton Manager.

On Inspector's Report of Nov. 10, 1903

Item 2467 Department

Fifth friction wheel from rear and left side of Roaster No. 1
is cracked, informed by J. Martin. Diller

OPEN

1 Is there enough weight on or is there a lot of friction
somewhere? Do you dope rails?

2 Clerk got this wrong think it refers to slipping
of conveyor over clamps at feed house

THOMAS A. EDISON, General Manager.

Referred to Mr. 3 Rader for explanation.

1 Do not understand question. it seems
to refer to con 128. while this refers to
one of the wheels supporting Roaster.

2 Yes Sir, there is enough weight, and
Rails are oiled continually with oil
Pipe system. Slipping is due to
dust drying up oil, or not enough
oil on rails, or clamps get somewhat
moist with oil, (over)

New Village, N. J.,

11-16

1903

W. H. Mason

NOV 20 1903

NOV 20 1903

11-16-03

2 11-23-03 M. Rader

[ON BACK OF PRECEDING PAGE]

I understand this refers
to Conveyor cover Clunker stock
& the reason it slipped has
been found to wit Boards
fastened at gunny Chambers
so tension weight come but
work —

TROUBLE INQUIRY.

Department

Part

Nature of Trouble

Clamps and Nails are wiped
of occasionally.

Dope would be no good, as
the great amount of dust
that is floating should leave them
nails dry in a few minutes

11-24-03

2 11-23-03 M. K. Radner

Orange office

Number KN4

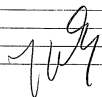
TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Nov 13 1903

Mr. H. S. Moulton Manager.
On Inspectors Report of Nov. 10th, 1903
Item 2485 Department _____
Gears driving bad clinker conveyor #1 are dry? Rader, keep them doped

Should not foreman see that they are doped and not allowed to get dry
Cannot man in charge at that point be instructed to do it?



THOMAS A. EDISON, General Manager.

Referred to Mr. Rader for explanation.

These are duties that belong to burner's helper
and he has been instructed as to these
nevertheless the Foreman must see these rules
are carried out. The helper to burner has
plenty of time to watch these and
keep them doped,

New Village, N. J., 12-12 1903

W. H. Rader
12-16-03

W. H. Rader

Orange office

NOV 20 1903

Number 888

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., NOV 18 1903

Mr. H. S. Moulton Manager.

On Inspectors Report of Nov. 11th, 1903

Item 2510 Department

I rubber on belt of Con. #111 is wearing on wood on dust curtains
any have it fixed

1- Could not Pingress man have noticed and reported this to him?

2- I think if Pingress keeps bounding at his men they
will in time find things all right

THOMAS A. EDISON, General Manager.

Referred to Mr. Pingress 11/17/03 for explanation. 2 Pingress

1- { Yes
But the class of men we have can only
see one thing at a time.

2- Men are improving in the discharge
of their duties and inspections

New Village, N. J., 11/17

1903

copy
11-15-03

copy
11-24-03

Pingress

NOV 23 1903

NOV 16 1903

Orange office

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Nov 13 1903

Mr. H. S. Moulton Manager.

On Inspectors Report of Nov. 11th, 1903

Item 2513 2514 Department U

2513 Skip hoist motor sparks badly. Barnes probably wants cleaning up.

2514 Motor driving giant roll feed is very dirty. Barnes, when was this inspected last?

104

Did Barnes inspector report this. Was it dirty and had it been visited regularly by Barnes man. There appears to have been no inspection of Crushing Plant on 11th as evidenced by temperature cards.

Why is this?

THOMAS A. EDISON, General Manager.

Referred to Mr. Barnes, 11/13/03 for explanation.

2513 *I clean up this motor personally daily when running*

2514 *Motor was last inspected on 10th & lights were out in this room on 11th. Our inspectors not knowing this lamp and this did not bother. Gustin here. Well, first we got a look at the motor and found it very dirty. Reported the motor since we took it.*

New Village, N. J., Nov 17 1903

(over)

AS Barnes

[ON BACK OF PRECEDING PAGE]

It seems to me that we should get a ^{or - original} ~~Service~~ motor
for the skip car ~~cheap~~ as this one ~~sparks badly~~ - on account
of variation in load & running. It requires a great
deal of attention.

W.H.M.
11-15-03

TROUBLE INQUIRY.

Department

Part

Nature of Trouble

Orange office

NOV 13 1903

Number 3545

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., NOV 13 1903

Mr. H. S. Moulton Manager.

On Inspectors Report of Nov. 11th, 1903

Item 2515 Department

Wire securing cap of filter cup on front right bearing of
clinker grinder #2 is broken. Moyer.

- 1- Couldn't man in charge have seen this and reported to foreman?
2- Is there any way man can do this without danger otherwise these bearings will always be neglected

THOMAS A. EDISON, General Manager.

Referred to Mr. O'Brien 11/16/03 for explanation.

- 1- The Man attending the Roller has had a Fear of going in the rollers since the Roll
1- Pulled apart He Claims he goes in there that his Oil was running all right - Felt his Bearings and got out But I have warned him. He Left Out For these things
- #2- I have looked in to there & see no way of making it absolutely safe without building a 4" bull head in front of belt. Man caught in there without getting in line of belt through he has to come. The Bull head would be very much in the way for repairing &c. I have changed my mind way

New Village, N. J., Nov 20 1903

O'Brien
11-21-03

W.H.M.
11-13-03

J.P. Davis

NOV 16 1903

Group office

10-2-13

NOV 12 1903

Number 3444

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., NOV 13 1903

Mr. H. S. Moulton Manager.

On Inspectors Report of Nov. 11th, 1903

Item 2517, 2518 & 2519 Department

2517 One foundation bolt securing girder supporting gear shafts driving

3rd 36" rolls is loose. Pingree set up.

2518 Ditto 1st 36" Rolls in Cr. Plant Pingree set up.

2519 One bolt loose in base supporting rear right housing of 2nd 36"

rolls in Cr. Pt. Pingree

/ Couldnt man in charge have seen and reported this to foreman.

OVER

THOMAS A. EDISON, General Manager.

Referred to Mr. Pingree 11/17/03 for explanation.

1 { These bolts were reported loose to me and
in turn I reported same to Master Mechanic
some two or three days previous to Inspector's
report. Bolt was shown to be watching for
loose bolts, plates etc. continually.
Usually do this work with my men, but at
this time another plant was running.

New Village, N. J., Nov - 17 1903

Arthur
11-21-03

Pingree

NOV 16 1903

[ON BACK OF PRECEDING PAGE]

2.

Moulton.

~~Has this report got in~~
Work book it would have been
attended to & we would have a
record - please arrange that
everything gets in Work Book promptly
& promptly put on the ^{Nature of Trouble} ^{Department} sub
work books - Cannot you arrange
that men at meeting bring these
things - of course this does
not prevent the verbal communications
direct in an emergency

TROUBLE INQUIRY.

*2.

Noted. We have designed a duplication order book for use of
mill Foremen with the idea that when they send order
orders to other Foremen they will have a copy of it by means
of the duplicating feature of their order books and then at the
afternoon meetings the various Foremen will hand in to the
Supt. the carbon copies of orders issued by them which carbon
copies will be passed upon by Supt. and entered up in the
work order book. The duplicating books are being prepared
and we hope to have them in use in course of few days.

11/1/03

Wm. Moulton

Orange office

NOV - 2 1903

Number 548

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., NOV 12 1903

Mr. H. S. Moulton Manager.

On Log Report of Nov. 11th, 1903

Item Clinker Fine Grinder 131 Department

2.13 Elevator blew fuse as soon as load was thrown on. Cleaning out buckets of elevator to lighten load.

1 - Why did elevator blow fuse the moment load went on? There must be something wrong with this elevator, motor or fuse.

2 - Fuses are supposed to blow at 2 1/2 times normal load - I still think something is wrong

THOMAS A. EDISON, General Manager.

Referred to Mr. Lord & Womack for explanation.

1 - When running slow speed the load goes on and flows chute at head of bin 132 to con 130. When the load is thrown on rolls all the way then passes through rolls to con 130, but then on 132 past the dump at 130 goes on overflow chute thus con 130 gets a double load for a short time and this doubling in the elevator load keeps almost double for a time, sufficient to blow the fuse, as motor is working very near its limit under normal conditions.

New Village, N. J., 11-16 1903

2 on

copy sent.

NOV 20 1903

Orange, N. J. 1903

[ON BACK OF PRECEDING PAGE]

*2- Fuses are not supposed to blow at $2\frac{1}{2}$ times normal load but at 25% above their rated capacity. On all 50 HP motors we have 225 amp. fuses. These fuses should carry 225 amp. continuously and blow out at 25% above that figure i.e. 280 amperes. Now if elevator has heavy load current will easily rise to that value in starting or running slot. But to properly protect motor we cannot use a larger fuse.

Attkisson

Optine
11-30-03

TROUBLE INQUIRY.

Department

Part

Nature of Trouble

225
230
240
67
450
31
746

change off

11-2-03

NOV 21 1903

Number 347

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., NOV 17 1903

Mr. H. S. Moulton, Manager.
On Inspectors Report of Nov. 12th,
Item 2526 Department

Bracket supporting filter cup on rear right bearing of chalk grinder is very loose. 3d notice. Dilts have change made as directed.

- 1- Why third notice?
With 3/4 balls they still continue to
2- get loose do them right

THOMAS A. EDISON, General Manager.

Referred to Mr. Dilts. "notes" for explanation. 25 Dilts 11/25/03

- 1- These Balls have been
loosening up in a very short time after
being adjusted in accordance of being 1/2" Ball to round
with the Great Vibrator. These 1/2" Balls have been
placed with 3/4" Balls & have these and be
further trouble

I would state that I believe
these Balls have been intended to be 1/2" Balls
No 2. I believe the best way to fix this is to only put out 1/2" balls
to take the place of 3/4" balls. Put 1544 25 Dilts 11/25/03

New Village, N. J., Nov 19 1903

NOV 24 1903
NOV 18 1903

W. H. M. 11-30-03
A. J. Dilts

#2 see other side of sheet.

Orange Office

NOV 20 1903

NOV 21 1903

Number 351

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., NOV 17 1903

Mr. H. S. Moulton, Manager.
On Inspectors Report of Nov. 13th,
Item 5066 Department Oil & Bearings
Cotter pin wanted in thrust cap of motor driving Conveyor 125.
Barnes.

Why didn't Barnes' Inspector find this out?

1 Is it not duty of inspector to inspect
2 everything made by company chambers? I had
learned from [unclear] [unclear]

THOMAS A. EDISON, General Manager.

Referred to Mr. [unclear] for explanation. Barnes 11/17/03

1 I did not know this. Should be a pin
in this place. my brother devoted most
of his time to keeping the motor
proper running. sometimes taking down
watching the oil in hands & etc
it was quite an easy matter to neglect
such a small matter as a pin
as far as it is not because they are not
watching drilled as to their duty's

New Village, N. J., Nov 19 1903

NOV 23 1903

correct
11-19-03

Barnes

NOV 18 1903

#2 see other side of this sheet

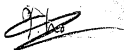
[ON BACK OF PRECEDING PAGE]

*2- yes it is the duty of Inspectors to report all faults ^{an motion} in gunning chambers but they did not have any special instruction regarding roller pins.

these men are not machinists but gunn men broken in to this work and do their best to keep things in good shape

2nd Reply Nov 27.03 A.B. Barnes

copy
11-27-03



TROUBLE INQUIRY.

Department _____

Part _____

Nature of Trouble _____

Orange office

NOV 30 1903

NOV 13 1903

Number 353

TROUBLE INQUIRY.

Edison Portland Cement Company.

NOV 17 1903

Orange, N. J.,

Mr. H. S. Moulton, Manager.
On Inspectors Report of Nov. 13th,
Item 5072 Department Oil & Bearings
Oil leaks around thrust cap on motor driving Conv. #137. Moyer.

1. Why didn't Barne's Inspector find this out?

2. Even if not serious it should be
reported & fixed before it
it can be fixed.

THOMAS A. EDISON, General Manager.

Referred to Mr. Barne 11/10/03 for explanation. 2 Barne 11/13

1. we found but did not think it
serious by any means.

2. Hereafter we will report all leaks within
flight for attention and we should like and
to report back when same are fixed as our
inspector do not have time to wait until oil
leak is ready to be repaired at all times.

New Village, N. J., Nov 19 1903

W. Barne

NOV 24 1903
NOV 18 1903
W. Barne
11-17-03
W. Barne
11-27-03

Orange office

Number 360

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., NOV 17 1903

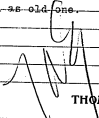
Mr. H. S. Moulton, Manager.

On Log Report of Nov. 12th,

Item 11-25 Department Roaster Plant

Shut down - Apron between roaster and cooler broke in two, part of
it came down in cooler.

What is cause of apron between cooler and kiln breaking?
this didn't do as well as old one. Can it be made so that it will
be permanent?



THOMAS A. EDISON, General Manager.

Referred to Mr. _____ for explanation.

If the break had worn out and chiller was shaking
on the drive it seemed to have burst it at the
top, but it crumbled all the way down. This may
have been due to the great sinking down a few days
before while we were trying to patch some
more holes. - we put the apron in
horizontal so the chiller would wear on chills.

New Village, N. J., 11-18 1903
WATM

NOV 18 1903

Change Office

5-17-012

Number 364

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., NOV 17 1903

Mr. E. S. Moulton, Manager.

On Log Report of Nov. 15th,

Item 8-30 Department Roaster No. 2.

Shut down- Heavy pattern idler broke put new one in, and tighten-
ing plates on flange.

Was the heavy idler one with double walls made by Sessions?



THOMAS A. EDISON, General Manager.

Referred to Mr. _____ for explanation.

*yes this was one made by Sessions from heavy pattern
it broke as per sketch.
I telegraphed Sessions to hold up further eastings and sent
him a sketch to change pattern so metal would be 3" thick
him, also made it a little thicker at top.*



*broke here all around rim, it was 1 1/2" thick
changed to 3"*

New Village, N. J.,

11-18

1903

Robertson

NOV 18 1903

Orange office

11-21-03

NOV 24 1903

Number 367

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., NOV 17 1903

Mr. H. S. Moulton, Manager.

On Log Report of Nov. 14th,

Item 9-52 Department Chalk Plant

Shut down- Loose plates, one broken, tightening plates, and re-placing broken one. Plate ran 8 hours and 55 minutes.

How did plate break? Was it edges of said plate break in two parts? Why this new trouble of loose plates?

2- What is matter with Arbor

THOMAS A. EDISON, General Manager.

Referred to Mr. Edison 11/18/03 for explanation.

1- Edge Broken- This trouble of loose plates in not altogether new. We have had some of this trouble before after changing full set of plates, but have had more of it this time, possibly on account of this set not receiving proper amount of attention from Chief of repairs & possibly on account of Ex. Bar for this set getting in bad shape. We have taken precautions which we believe will prevent further trouble from either cause in the future.

New Village, N. J., Nov 19 1903
AMH
11-21-03
I. Over
AMH

NOV 18 1903 #2-

[ON BACK OF PRECEDING PAGE]

- 2- The Arbor is all right. part of the trouble was caused by the machinist in shop not grinding the counter bore for plates properly. We were somewhat disorganized in the Mechanical department at that and there was not discussed until too late. We have taken precautions which I think will prevent this happening again.
- W.H.M.
11-30-03

TROUBLE INQUIRY.

Department
Part
Nature of Trouble

Orange office

11-2-103

11-2-103

Number 371

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., NOV 17 1903

Mr. H. S. Moulton, Manager.

On Log Report of Nov. 14th,

Item 12-51 Department Clinker Fine Grinder

Shut down - Belt slipped on No. 132 Con. Waiting for belt men to take up-belt.

1- Could not the slipping of belt on Con. 132 have been anticipated?

2- What has Mr. Mason to say about this - This fits my experience exactly - Edison

THOMAS A. EDISON, General Manager.

Referred to Mr. Pillsbury 11/19/03 for explanation.

1- This belt has been taken up several times when not necessary, simply to keep peace in the family. The trouble is that when the rollers or chutes get plugged the first care is for the belt to be taken up, without any regard for the good of the belt, when as a matter of fact 10 min use of a shovel would do more good. This statement applies particularly to the Climbentoni grinder. The Climbentoni men having been cured of this disease to a large extent.

#2 -

New Village, N. J., Nov 19 1903

11-23-03

O. F. Pillsbury

NOV 18 1903

[ON BACK OF PRECEDING PAGE]

2

Pillings answer is alright. I think except in the case of #152 con. This conveyor has not a very long sag. it is impossible to get it with the 5 dumps. And the special roller is set lower than most of the others thus it has less wrap around the head pulley. I am going to try to raise the special pulley to get more wrap. though it is in a very awkward place.

WFM
11-30-63

TROUBLE INQUIRY.

Department _____

Part _____

Nature of Trouble _____

Orange Office
12-1-03

Number 373

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Nov 24 1903

Mr. H. S. Moulton, Manager.

On Log Report of Nov. 16th,

Item 3-19 Department Crusher Plant

1 Shut down - Fuse blown on motor Con. 103, electricians investigating cause.

What was cause of fuse blowing on con. 103?

2 (Why not find the cause since this sheet was filed con. 103 has burned out. There are too many reports of "Cause unknown" coming from Electrical Dept. THOMAS A. EDISON, General Manager.

Referred to Mr. Goodwillie "11/28/03" for explanation. 2 - Goodwillie 12-5-03

1 On investigation found evidence of an arc between armature and live contacts on terminal board. Cause unknown

2- motor con. #103 did not turn out. It expanded badly & threw out some solder from connection. Proper care would have prevented it from sparking as it has run well. As to "cause unknown" there are so many inexperienced, irresponsible people looking after motors that it is next to impossible to

New Village, N. J., 11/28 1903

copy DEC 3 - 1903 NOV 19 1903 11-30-03 find out anything about them. W.H. Goodwillie
10/11/03
11/13-03

Change office

NOV 25 1903

Number 328

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Nov 23 1903

Mr. H.S. Moulton, Manager.

On Inspectors Report of Nov. 16th

Item 5085 Department

Oil leaks around sight glass in commutator and bearing of light motor in No. 2 bin, Rock Stock House tunnel, boiler.

Did Barne's Inspector know of this?

To Mr. Barne's keeping track on his inspection - nothing is so slight to be reported - to an inspector of the observing powers, fellow inspector, THOMAS A. EDISON, General Manager.

Referred to Mr. Barne's 11/20/03 for explanation.

Gen. Insp. Barne's failed to report the leak being so slight a slight mistake

New Village, N. J., Nov 20 1903

after
11-23-03

NOV 19 1903

Orange Office

NOV 23 1901

Number

661

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., NOV 23 1901

Mr. H. S. Moulton, Manager.

On _____ Inspector's Report of Nov. 18th,

Item 2576 Department _____

But on union is bursted on small air pipe in tunnel near air receiver. Kaufman.

Who should have found this?

Inspection

W.S.

[Signature]

THOMAS A. EDISON, General Manager.

Referred to Mr. Kaufman 11/23 for explanation.

There are many small leaks found almost daily on all pipe lines under pressure. At times the small leaks might not interfere with the running of plant, which makes it undesirable to delay until the pipe line on which such leaks are observed can be cut out.

New Village, N. J., Nov 26th 1901

W.S.
11-27-03

S. Kaufman

Don't forget

11-24

See 127 on

Number 005

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Nov. 23rd, 1903.

Mr. H. S. Moulton, Manager.

On Inspectors Report of XXXXXXX Nov. 14th,

Item 2550 Department

Bevel gears driving roaster #1 are worn badly. Dills, order another set with hunting teeth.

1- Can't this wear be stopped- gears cost money?

2- How about a sleeved frame

TH

THOMAS A. EDISON, General Manager.

Referred to Mr. for explanation.

1- I have gotten out a sketch & am getting pieces of Mangum's shut gears for this place. with hunting teeth. These I am told will give both strength & wear. Things are have been here but will do it but they are hard - & the frame on which they set vibrates some which is fatal in this case of a gear gear. I think the Mangum's gears will solve the problem

New Village, N. J., 11-24 1903

Edison

NOV 28 1903

and see note #2 - over

[ON BACK OF PRECEDING PAGE]

2 - I would grout frame to 5 ft then if it.
Possible but that requires several days & will
see what can be done by bracing.

W.H.W.
11-20-03

TROUBLE INQUIRY.

Department	_____
Part	_____
Nature of Trouble	_____
_____	_____
_____	_____

Young Office

DEC - 17 1903

NOV 30 1903

DEC 21 1903

Number 389

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., NOV 23 1903

Mr. H.S. Moulton, Manager.
On Inspectors Report of Nov. 17th,
Item 2600 Department

The bore of small pulleys on flexible drive coupling of Con. 112 are wearing rapidly. Barnes, report.

- 1- What is cause?
- 2- When there are a lot of flexibles in well way out of line (down) there was no necessity whatever for it to be bowed &c. This answer doesn't satisfy me. Favorably
THOMAS A. EDISON, General Manager.

Referred to Mr. H. S. Moulton 11/25/03 for explanation. 2 - letters, 11-3-03
3 letters - 11-11-03

- 1- Baffitt not the proper thing in these small pulleys
- 2- This is not in the case on some 12 pulleys on one general other thing that I know of, which are not out of line where Baffitt is very badly worn for that reason I believe Baffitt is not equal to the requirements

2- problem see 403

New Village, N. J., DEC 8 - 1903
DEC 2 - 1903
DEC 11 - 1903
DEC 14 - 1903

1903
Arrillo
Come of before Hoffmanns time

[ON BACK OF PRECEDING PAGE]

#3. Try hard babbet as used in
Race bearings - also brass bushing
^{one or 2} in places that give trouble &
see which is the best -

#3. will give it a trial
think a loose Brass bush running better
Pin also running better Pully would be better
for belt
DEC 9 03

60 Pk
12-7-03

TROUBLE INQUIRY.
Part
Nature of Trouble
Department
Date

Investigation

NOV 20 1903

Number 898

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Nov 25 1903

Mr. H. S. Moulton, Manager.

On Inspectors Report of Nov. 16th.

Item 2608 Department _____

Bracket supporting filter cup on rear right bearing of clinker grinder is loose. Cary.

1- This defect is constantly reported. Can anything be done to stop it permanently?

2- Wasn't when you came up to Lab bring drawing of machine & we will settle this THOMAS A. EDISON, General Manager.

Referred to Mr. Butter, 11/25/03 for explanation.

1- Yes. Make filter cup to take the place of C-7 stuff. Box. Part NO 1540. Show it on paper A 430. Filter cup & gland to be all one piece & fasten with same bolts to much overhang on present arrangement

#2- I will send you a casting as soon as examined then was discussed about the 5th of the month & the plan was explained

New Village, N. J., Nov 25 1903

DEC 2- 1903
NOV 24 1903

W. H. H.
11-27-03

W. H. H.
12-13-03

A. B. B.

Orange, N.J.

DEC - 25 1903

NOV 20 1903

Number 889

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Nov. 23rd, 1903.

Mr. H.S. Moulton, Manager.
On Inspectors Report of Nov. 14,

Item 2551 Department Oil leaks out of union on drain pipe under roaster #2 near drive.
Boyer.

1- Should not man in charge have found this?

2- Mason - Have Mr Rader keep a
book with him + get all these
things on record -
THOMAS A. EDISON, General Manager.

Referred to Mr. Rader "H.S." for explanation. 2-

1- Yes Sir he did report this to me
a few days before this was
seen by inspector.
But I neglected to notify Mr Moyer
+ have it fixed.

2- Mr Rader has kept a book showing when things were
reported. This book was forwarded to you for inspection
Last week.

New Village, N. J., 11/25 1903

DEC 2 - 1903
NOV 24 1903

11-27-03

12-3-03

M. Rader

Orange office

NOV 23 1903

Number 406

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Nov 23 1903

Mr. E. S. Moulton, Manager.

On Inspectors Report of Nov. 18th,

Item 5106 Department Bearing Inspection

Packing ring out in side of blower #4, blower house #1. Dilts.

1 Why did it come out?

2- Wason - Is there any remedy for this -

THOMAS A. EDISON, General Manager.

Referred to Mr. Dittie Nov 10 for explanation.

1 Caller appeared due to flexibility of shaft strikes stuffing box occasionally

2- The only way out of it I suppose is to put in larger collar than I have ordered now. They had taken all next when blower was put up but spring in shaft is not as before same probably due to some gradual stretching of blades of blower

New Village, N. J., Nov 25 1903

DEC 2 - 1903
NOV 24 1903

Dittie Nov 27-03
Wason 12-13-03

Ans 266

Orange Office
NOV 13 1903

NOV 13 1903

DEC 13 1903

Number 408

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., NOV 23 1903

Mr. H. S. Younton, Manager.

On Inspection Report of Nov. 17th,

Item 5095 Department Bearing Inspection

1. Sample of oil taken from drain pipe of front intermediate bearing of chalk grinder shows grit, and babbit bearing runs warm, oil very dark - will investigate.

With all the wool used how does the grit get in?

2. Jayne - Can this be fixed?

THOMAS A. EDISON, General Manager.

Referred to Mr. Jayne 11/25/03 for explanation. 2 Jayne - 11-3-03

1. I think that the grit gets in the bearings through the wool packing chamber. That the wool does not close around the shaft as quick as the shaft can change its position in the bearing. The bearings have wear some which makes it worse.

2. I think it can be by putting a rubber guard around shaft. as per accompanying sketch.
Over

New Village, N. J., 11/26 1903

DEC 2 - 1903

Wm 12/9/03
11-27-03

M. S. Jayne

DEC 12 1903

DEC 12 1903

[ON BACK OF PRECEDING PAGE]

this may do it but then is frequently old leather here
which we have been unable to stop permanently so far
and it would seem to be rubber. How would soft leather do?

We will try the experiment anyway

WTHM
12-9-03

WTHM
12-13-03

TROUBLE INQUIRY.

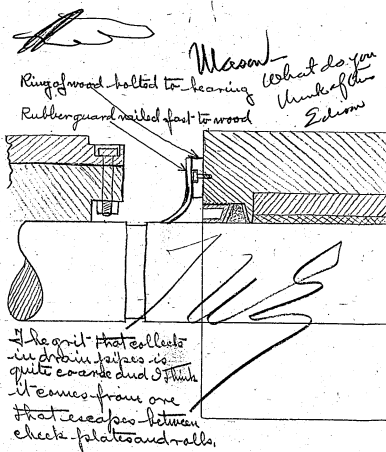
Department _____

Part _____

Nature of Trouble _____

Agencies, organizations, etc. that have been kept with this should be
sent to the proper authorities for their consideration. (See also
the list of agencies on the back of this form.) These
agencies should be kept in mind when making a general survey.

[ATTACHMENT]



Trouble Inquiry #408
12/9/03

Brang Office

NOV 20 1903

Number 410

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Nov 20 1903

Mr. H. S. Moulton, Manager.

On Inspectors Report of Nov. 17th,

Item 5100 Department Bearing Inspection

Rags left hanging on arm of bearing of right motor in #1 chamber
S.H. #2. Barnes, who did this?

What is name of Inspector in Barnes' Dept. Who did this?

2. Will Mr Moulton explain this man
[Signature]

THOMAS A. EDISON, General Manager.

Referred to Mr. Barnes, *11/20/03* for explanation. *Woyner 12-5-03*

in answer to first question (common)
Paul says I did not see the man who
did it. Paul I do not believe my inspectors
did it. rag was found as above
after oil men had fixed the motor
this still leaves the rag in our position
as proof

2 (over)

New Village, N. J., 11/24

1903

DEC 2-1903
NOV 24 1903

Woyner
11-27-03

Woyner

2

[ON BACK OF PRECEDING PAGE]

Oil men in going into a quarry or timber
to pack or seal a motor always bring
all old wool and rags used. If old
wool is put into a barrel and
rags are put in box to be rewarmed.
All oil men have been instructed to bring
back all rags used any place on the plant
to be removed and reused.

H. M. Meyer.

Oil Dept.

Dec 4th 1903

W. H. H.
12-4-03

TROUBLE INQUIRY.

Department

Part

Nature of Trouble

Orange office

NOV 23 1903

NOV - 2 1903
Number 411

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., NOV 23 1903

Mr. H. S. Moulton, Manager.

On _____ Inspectors Report of Nov. 17th,

Item 5101 Department Bearings Inspection

Clamp holding brush in place rubs on edge of belt at head of Con.
145. Cary, have it moved to clear belt.

1- Did man in charge know of this and did he report it?

2- Do you carry a memorandum

Book —

THOMAS A. EDISON, General Manager.

Referred to Mr. _____ for explanation.

1- Mr. Osburn reported this to me the night
before. I neglected to have it
attended to.

2- Mrs. Ser hint don't use it as often
as it should.
Boston

New Village, N. J.,

11-24 1903

NOV 28 1903

NOV 24 1903

W. H. Moulton
11-30-03

W. H. Moulton

Orange office

DEC 21 1903
DEC 18 1903

DEC 15 1903

Number 416

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., NOV 23 1903

Mr. H. A. Goodwin, Manager.

On Dec 10 Report of Nov 17th.

Item 9-35 Department Crusher Plant

Shut down- Lead wire to fields burned off on motor (Conn. 102).
Electrical system grounded in entire crusher plant.

What caused lead wire on fields of Con. 102 motor to burn off? Why did Electrical system ground? Does electrical dept. inspect their wiring system and keep insulators etc. clean?

2 Masur- What do you think of putting the extra field wire of good insulated wire - see Warren & Jackson to him about it. THOMAS A. EDISON, General Manager.

nothing out of sheet.

Referred to Mr. Goodwin 11/9/03.

Referred to Mr. Goodwin 11/23 for explanation.

Lead wire on fields did not burn off but broke off. I think vibration must have caused it to break at the place where wire enters terminal. I have put in flexible cable instead of solid wire. This will stand, it covered a good deal of vibration and bending before breaking. As for grounding of system on wet days the wire in Conn. 102 and 103 will always be grounded as long as magnet wire remains and air is full of moisture. 11/28 1903
New Village, N. J. 11-20-03
DEC 3 - 1903
NOV 24 1903
DEC 1 1903
m such days there is a man knocking holes to keep wet dust off insulators. OVER

[ON BACK OF PRECEDING PAGE]

#2 If we are going to put in any rubber insulated wire to conveyors #102 + #103 why not put in all three wires with rubber insulation.

W. C. Harvey

12/13/03

Shall we adopt Warner's Suggestion?

W. C. Harvey

*3 -
In Mr. Harvey's 11/4/03.

Yes
J. A. E.

#3. all right it is ordered
W. C. Harvey
12-18-03

TROUBLE INQUIRY.

Department

Part

Nature of Trouble

Orange N.J.

NOV 20 1903

Number 117

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., NOV 23 1903

Mr. H.S. Moulton, Manager.

On Log Report of Nov. 17th.

Item 11-11 Department Crusher Plant

Stop feed - Dryer screens clogged.

What caused Dryer screens to clog?

[Handwritten signature]

THOMAS A. EDISON, General Manager.

Referred to Mr. Puyma 11/21/03 for explanation.

Or was very wet on this date and as it came over screens, would not slide over plates readily - also clay adhering to rock made it falling to a certain degree when as would then stick on screen.

New Village, N. J., Nov 26 1903

NOV 24 1903 11-27-03

Puyma

Orange Office

01-3 603

Number 203

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., NOV 21 1903

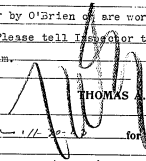
Mr. H. S. Moulton, Manager.

On Inspectors Report of Nov. 20th,

Item 2647 Department

Eight feet of angle rubber off of belt on Con. 132. O'Brien-
Pilling.

Did man in charge find and report this? Did O'Brien
know of it or are the items marked "O'Brien" and then "Pilling"
Reported to Inspector by O'Brien or are words "O'Brien", "Pilling"
added in office? Please tell Inspector to use word "Reported by"
when item is given him.



THOMAS A. EDISON, General Manager.

Referred to Mr. Jaymes 11/30/03 for explanation.

O'Brien discovered and reported it to me.

New Village, N. J., 12/1 1903

Arthur
12-1-03

M. A. Lawrence

$$d_{\text{eff}} = 1.30 \times 10^3 \text{ m}^2 \text{ s}^{-1}$$

Number 329

TRouble INQUIRY.

Edison Portland Cement Company.

Orange, N. J.,

Mr. H. S. Moulton,

Manager.

On _____ Inspectors

Report of Nov. 21st.

Item 2656-2657

Department

~~XX~~

2656- Cheek plates are worn on cheek grinder. Dills, have we a lot of squares?

~~2657- Cheek plates are worn on clinke grinder. Bilts, note.~~

Mr. Koulton, please read these items. The system of keeping account of spares should make it unnecessary to ask the assistant Master Mechanic if there was any spares.

THOMAS A. EDISON, General Manager.

Referred to Mr. Mohd Ali - 11/28/03 for explanation.

Your argument is logical. But, at the time Mr. Mason wrote,
 the above notation, the Sparrow Record, so say a serious impediment
 of giving Mr. Masons the information he wanted at this time, from a
 reliable, and it was not available, because we had not had time to
 complete the record. We have not yet been able to complete the record
 of Sparrow party, up to this time, or accounts of the fact that the Sparrow
 party have been doing very well and applied it well, without having from
 the required notes of the workers, we are now in position of tracing a much
 matter, so as to perfect the Sparrow Record and making the necessary provision
 for similar efforts.

New Village, N. J.,

November 30th 1902

1902

N. J. Gould

Orange office

ML-5 503

Number 466

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., APR 11 1903

Mr. H. S. Moulton, Manager.

On Inspectors Report of Nov. 21st.

Item 2659- Department

Gears (inside of gunny chamber) driving Elev. #2 are very dry.
Barber.

Does Mr. Hesson think these gears should remain open and
be neglected or closed and self oiled? There are many reports of
dry gears.

~~If they are as dry as the others~~
~~Why do they?~~
W.B.

THOMAS A. EDISON, General Manager.

Referred to Mr. for explanation.

*We are going to make gear cases as
soon as possible but at present we are
pushing up more important ones.
Rooster drums &
The new gears are in a gunny chamber
& have a light load.*

New Village, N. J., 12-5-1903
W.H.M.

Orange, N.J.

DEC - 15 1903

Number 465

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., NOV 25 1903

Mr. H. S. Moulton, Manager.
On Inspectors Report of Nov. 21st,
Item 5134 Department
One flight broken, and one flight and brace badly bent on Con. 113.
Hufman, repair.

Was this known and reported by man in charge?

*I always supposed there was a
man in 2nd floor of Blower
houses - who takes care of this
floor*
THOMAS A. EDISON, General Manager.

Referred to Mr. Pugmire 1130-03 for explanation. *2. Pugmire - head
of Blower houses
+ should have charge of them
12-8-03*

*This was reported by day foreman to section
1- Mechanics and then Inspector's attention was called to it.
We have no man on this floor.*

*2- Foreman look after drawings and scraper
conveyors.
Instructions call for man on this floor to also
look after second. But as yet we have not
been able to have him take care of second as*

New Village, N. J., DEC 1 - 1903
*W.H.H.
12-3-03* *Pugmire*

[ON BACK OF PRECEDING PAGE]

so much time has been needed to keep fore pipes
clear-

Pinger.

12-10-03

W.H.W.
12-10-03

TROUBLE INQUIRY.

Department _____

Part _____

Nature of Trouble _____

sampled

DEC - 15 1903

DEC 11 1903

Number 469

TROUBLE INQUIRY.

Edison Portland Cement Company.

Mr. H. S. Moulton, Manager. Orange, N. J., Nov 25 1903
On Log Report of Nov. 22nd,
Item 1-10 A.M. Department Roaster Plant
Shut down on account of breaking off coal ring in roaster.

- 1- What is breaking coal ring
- 2- I was told new bars this ring & kept it down

THOMAS A. EDISON, General Manager.

Referred to Mr. Raden - 11-30-03 for explanation. 2 Raden 12-5-03

- 1- Coal ring (so called by the burner) is a formation of fine clinkers, at a point immediately outside the clinker heat, which accumulates to such proportions as to prevent clinkers to roll out of kiln freely. This is hard and can not be broken out while heat is in, and kiln is running.
- 2- They do run this down to a certain extent that is to say so long that they are able to cover

New Village, N. J., 12-2 1903

W.H.H.
12-5-03

W.P. Raden.

DEC 8 - 1903

[ON BACK OF PRECEDING PAGE]

TROUBLE INQUIRY.

Department _____

Part _____

Nature of Trouble _____

To break it off, Routers have been shut down so often as to give us a very good chance to clean this coal ring off. During shut down, when no mention was made concerning this. On this occasion kiln was worn very much in heating, fire, and very little coating on, and a high coal ring. Chalk was forming into balls very much and rolling around behind this coal ring and kept the kiln from coating while coal ring was on.

W. H. H. H.
11-10-03

12-9-03

W. H. H. H.

Orangeville

DEC - 3 1903

Number 471

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Nov 22 1903

Mr. H. S. Moulton, Manager.

On Log Report of Nov. 21st,

Item 8-52 Department Crusher Plant
Shut down - Wire cable broken on flexible coupling, 3d set 36" rolls,
mechanists repairing.

Why did the flexible rope on wobbler have such a short
life as compared to previous one? This short life would appear
to be due to neglect somewhere. Two hours and 48 minutes seems a
long time to make change.



THOMAS A. EDISON, General Manager.

Referred to Mr. Letter 11-30-03 for explanation.

*The Reason for the short life of this rope
was because rollers on coupling became stuck on their
pins & could not revolve. Another reason was
because of the breaking of being casting part was
broken right at the top of item 11-29 & piece of casting going
through part. Hope to be able to deliver the rope
on changing these rollers but they are quite inconvenient
to handle.*

New Village, N. J., Dec 9th 1903

*W.H.W.
12-1-03*

A.M.B. 115

Orange Office

DEC - 5 1903

Number 472

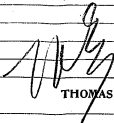
TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., NOV 21 1903

Mr. H.S. Moulton, Manager.
On Log Report of Nov. 21st,
Item 12-12 Department Crusher Plant
Cars stuck in switch at foot of incline.

Can this sticking of cars at foot of incline be fixed?
It was stated some time ago that it was fixed. This is going to be
serious this winter.



THOMAS A. EDISON, General Manager.

Referred to Mr. Pingree 11-30-03 for explanation.

We have been using a different oil for
a few days past. So far have not
had any trouble with cars sticking.

New Village, N. J., Dec - 1 1903
W.H.H.
12-3-03 Pingree

Orange Office

DEC - 5 1903

Number 477

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J.,

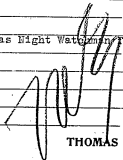
Mr. H. S. Moulton, Manager.

On Log Report of Nov. 23rd,

Item 7-00 Department Crusher Plant

Waiting for rock. Lost 20 minutes, Night Watchman failed to have steam on shovel - lost 25 minutes, throwing out dirt and picking clean rock.

What excuse has Night Watchman for not having steam up in shovel?



THOMAS A. EDISON, General Manager.

Referred to Mr. Smith 11-30-03 for explanation.

Watchman says wind was wrong could not get up steam & changed the wind for him and it had been all right since

New Village, N. J., L. Smith 1903

10 Nov
12-3-03

(This irregularity was observed by me, after Smith's caution against repetition. H. S. 12/6/03)

NOV 20 1903

copy office

DEC - 5 1903

DEC 12 1903

Number 478

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J.,

Mr. H. S. Moulton,

Manager.

On Log

Report of Nov. 23rd,

Item 8-44

Department Crusher Plant

Shut down - large rock stopped one roll, taking rock from rolls (Gients)

109 minutes is a long time to chain or dog a rock and get

- 1- 14 out. 15 minutes was average at Edison. You have hand hoist made for this purpose. Why did it take so long? Was it inexperience? Why did it stop roll?

- 2- We had all this at Edison & yet our average time was just 15 minutes
THOMAS A. EDISON, General Manager.

Referred to Mr. Piquem

for explanation.

- 1- Large rock struck first roll starting same, and causing other rocks to fall on or large one. Making it necessary to run a part of a ship load off rock.
- 2- Large rock was wedged against max of hopper in such a manner that shipper plates could not strike and break rock.

- 2- I can not see how this could have been done in any less time as men were doing all

New Village, N. J., Dec. 1

1903

Piquem.

DEC 8 - 1903
NOV 28 1903

[ON BACK OF PRECEDING PAGE]

they could to get mill running again.
Bingm.

~~10-10-25~~
10-10-25

TROUBLE INQUIRY.

Department _____

Part _____

Nature of Trouble _____

Orange, N. J.

NO - 5 55

Number 409

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., NOV 27 1903

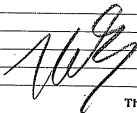
Mr. E. S. Moulton, Manager.

On Log Report of Nov. 23rd.

Item 10-33 Department Crusher Plant

Waiting for speed, giant rolls would not start.

Why would not Giant rolls start?



THOMAS A. EDISON, General Manager.

Referred to Mr. Purges - 11-30-03 for explanation.

Friction on rolls would not start roll on
account of lubricant applied under shoes
when roll stopped revolving.
This immediately follows time when large
rock was wedged in between

New Village, N. J., Dec-1 1903

20th
12-5-03

Purges

Orange N.J.

DEC -13 1903

Number 485

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., NOV 27 1903

Mr. H. S. Moulton, Manager.

On Inspectors Report of Nov. 23rd,

Item 2693 Department

Chute from one blower in blower house #2 choked this morning by cloth, wood, rubber, a piece of iron used on old man, and a cape chisel. Dites, take precautions, as directed, against this happening again.

Who is responsible? You will always have this trouble without men are warned in such a way that it will cling to their memories.

THOMAS A. EDISON, General Manager.

Referred to Mr. Little 11-30-03 for explanation.

Dites is responsible + has warned him more on this score + furnished them with harder recommendations for all parts of material + repeated the same for once without hearing any kick about it.

New Village, N. J., DEC 1 1903

Little
12-1-03

A. M. Little

NOV 28 1903

Orange office

DEC - 5 1903

Number 286

TROUBLE INQUIRY.

Edison Portland Cement Company.

NOV 27 1903

Orange, N. J.,

Mr. H. S. Moulton, Manager.
On Inspectors Report of Nov. 23rd,
Item 2681 Department Nov. 23rd,
Not not wired on one stud supporting brush holder on motor driving
Con. 113. Barnes.

Is Mr. Barnes keeping record on his inspectors to spot those incompetent? I suppose inspectors are told to notice if every thing that should be wired is wired. If an inspector habitually neglects or fails to note these little things, he is a hopeless case and it's time a better man was given a chance.

THOMAS A. EDISON, General Manager.

Referred to Mr. Barnes 11/25/03 for explanation.

Last week or about the date the motor went to the head to alter due to commutator ^{insulator} being dry that the May have omitted to wire stud that you say are keeping record of most trouble are due to one man whom he has discharged

New Village, N. J., 12.2

1903

*10/25/03
12-3-03*

W. Barnes

NOV 28 1903

Orange office

DEC - 5 1903

600 24 100

Number 490

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., NOV 27 1903

Mr. H.S. Moulton Manager.
On Inspector's Report of Nov. 23rd,
Item 2687 Department Angle rubber on belt of Con. #147 wears on guide boards.

How long has this been going on? Who should have found

1- it, man in charge or Belt Department men? Should not Belt
dept. have found this?

2- Jayne = This is one on you

THOMAS A. EDISON, General Manager.

Referred to Mr. Pilling 11-30-03 for explanation. 2- Jayne 12-5-03

I should say that this has been going on
ever since the guide boards were first put on.
This item should have read "has been wearing on
1- guide boards" as it had worn a clear path and
did not then "wear". An order was in the
Carpenters hands for new guide boards at the
time of this report.

2- Pilling evidently wore on boards since they were first
put on, and is one of many cases, but at the time I saw it
12/10/03 Pilling was wearing on boards and Pilling is a remarkable
man to know what took place while he was examining it.

New Village, N. J., DEC 1 1903

DEC 8 - 1903
NOV 28 1903

11-5-03
12-10-03

O Pilling

copy of file

DEC - 7 '03

Number 495

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., DEC - 7 '03

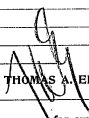
Mr. H. S. Moulton, Manager.

On Inspectors Report of Nov. 25th,

Item 5164 Department Oil & Bearing

Six oil cups off of wheels on Elev. #2; 2 on right, 4 on left side.
Weyer, replace cups, and apply oil.

These oil cups are constantly reported as coming off. What
makes them come off? Find the cause and remedy it. This cannot
go on forever.


THOMAS A. EDISON, General Manager.

So Mr. Mason Dec-2-03
Referred to Mr. Bell 12-3-03 for explanation.

one Reason is the triangular plate
which holds wheel on has two screws in one 1/2" and 1/4"
locked together in some cases the 1/4" screws have
broken off the triangular plate then swings round with
the rotation of the wheel acting like a Lever Breaks the
out off another Reason it is possible for these
cups to strike bolts in track in one or two places which
will be removed at first opportunity which I suppose
had better be soon

New Village, N. J., Dec 4 '03 1903 Am. Sells

Am. Sells
12-4-03

DEC 2 - 1903

Orange Office

DEC 28 1903

Number 503

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J.,

Nov - 1 1903

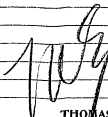
Mr. H. S. Moulton, Manager.

On Inspector's Report of Nov. 24th,

Item 2700 Department

Several bolts loose in couplings on hand wheel shaft operating Con.
116. Rader.

Was man in charge aware of this?



THOMAS A. EDISON, General Manager.

To Mr. Mason Dec 2-03

Referred to Mr. Rader - 12-3-03 for explanation.

No Sir, Man in charge was not aware of this. Simply because he was not instructed on this one particular point (Hand wheel shaft) but some men never do see any more than what you point at for them. This was due to Foreman and myself not giving complete instructions which left man in charge ignorant as to duty.

Same old trouble

New Village, N. J.,

12-14

1903

A. H. H.
12-16-03

Rader

Orange office

DEC-9 1903

DEC 11 1903

Number 508

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J.,

DEC-7 1903

Mr. H. S. Moulton, Manager.

On Log Report of Nov. 24th.

Item 8-40 Department Weighing Plant

Putting on new gear motor drive Con. 105, broken by bolt getting out of collar on pinion shaft and catching in teeth.

1 Why did bolt get out of collar on pinion shaft? Was it locked?

2 Are these bolts generally locked
are we liable to have more of this
trouble —

THOMAS A. EDISON, General Manager.

To Mr. Mason Dec 2-03

Referred to Mr. Huffman - 12-3-03

for explanation. 2 bolts

11/4/03

1 This bolt was not locked

2 These bolts are not only generally locked but are supposed to always be locked. This was not properly done or not done at all when Millwrights changed this drive from original to Orange drive Early last summer. I am of the opinion that there are not few if any of these which have not received proper attention but can not say more without taking lots of all gear cases on such drives

Result DEC 14-03

New Village, N. J.,

190³

W.H.H.
12-8-03

W.H.H.
12-14-03

J. A. Huffman

FC 11 1903
DEC 2 - 1903

Orangeville

DEC - 7 1903

Number 511

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J.,

DEC - 7 1903

Mr. H. S. Moulton, Manager.
On Log Report of Nov. 24th,
Item 6-00 A.M. Department Roaster Plant
Not running - Putting new brushes on motor driving roaster.

Will Mr. Warren investigate and report why motor on
roaster should be the ones that require incessant cleaning of
commutator?

THOMAS A. EDISON, General Manager.

To Mr. Mason Dec 2-03

Referred to Mr. Warren 12-3-03 for explanation.

Due to copper wearing away
faster than mica. This keeps
the brushes out of contact with
copper + causes sparking.
These motors carry a heavier load
than most of the 25-HP motors
in the plant + they carry it
24 hours per day.
There has been no trouble with
these motors since mica has

New Village, N. J., 12/4

190 3

Office
12-4-03

W. H. Warren

DEC 2-1903

(over)

[ON BACK OF PRECEDING PAGE]

been scraped down below
bars on Nov 26 + 27.

TROUBLE INQUIRY.

Department _____

Part _____

Nature of Trouble _____

On the copper wire
between these wires this
the house out of contact with
copper + some of the
the wire away to house
out of the 5 ft. wire
in the front + they
of these from clear.
there has been a trouble with
the wire since it was
the wire

(over)

copy office

DEC-9-1903 DEC 15 1903
TROUBLE INQUIRY.

Number 516

Edison Portland Cement Company.

Orange, N. J., DEC-7-1903

Mr. E. S. Moulton, Manager.
On Inspectors Report of Nov. 27th,
Item 2752 Department Pilling.
Lacing has started to break in belt on Con. 137.

- 1- Has man in charge been told to look out and report such things?
- 2- Mason - Has Pilling enough men to attend to things promptly.

THOMAS A. EDISON, General Manager.

3- Mr. Mason Dec-2-03

Referred to Mr. Brown - 12-3-03 for explanation.

- The Man in Charge told me about it and I reported it to Pilling it is running that
- 1- Way how as Pilling claims he hasn't had a chance to fix it
- 2- Yes I think so and he has the privilege of calling in mechanical & repair ^{dept} to work Dept in which he is working. This was not a case of men but of gov machinery must shut down long enough to do the work.

New Village, N. J., Dec 6 190

W. H. H.
12-7-03

W. H. H.
12-13-03

J. W. Brown

DEC 11 1903
DEC 2- 1903

Orange office

DEC 16 1903

518

Number

REC-7 1903

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J.,

Mr. H. S. Moulton, Manager.

On Inspectors Report of Nov. 27th,

Item 2755 Department

Fields and armature of motor driving Con. 132 are very dirty.
Barnes, clean out at noon hours.

1- Who is responsible?

2- Cannot the dust be kept out of
Chamber - where does it get in

THOMAS A. EDISON, General Manager.

See memo Dec-2-03

Referred to Mr. Barnes 12-2-03 for explanation. 2 Barnes 12-7-03

- Barnes
- 1- we find it next to impossible
to clean the 50 horse motor with
air hoses we are getting in compressed
air with 109, 110. tried it with hose
found it impossible. OK finish me quick
change it through the whole mill to
clean up with
 - 2- In order to keep things chamber and I mean
necessary to put in two fans this camera

New Village, N. J.,

1903

DEC 8-1903

DEC 2-1903

Wm
12-4-03

Wm
12-4-03

Wm Barnes

[ON BACK OF PRECEDING PAGE]

TROUBLE INQUIRY.

Department _____

Part _____

Nature of Trouble _____

2, Continued.

blow in the displacement of air
this leads the gunner with dust and
when you clean up chamber. Control is
do in this case twice daily. The fire float is
drawn into chamber since we have
compressed air in 109, 110 we use
same to blow dust outwards which
works better do not do this every day
but about twice weekly this keeps gunning
and motor in good condition.
Born

2nd Reply

12.14.03

Orange Office

DEC - 7 1903

DEC 16 1903

Number 519

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., DEC - 7 1903

Mr. H.S. Moulton, Manager.

On Report of Nov. 27th.

Item 2756 Department

Fields and armature of motor driving Elev. #2 are very dirty.

Barnes.

- 1- Who is responsible? *TWB*
- 2- Is gunny chamber large enough - How does dust get in

THOMAS A. EDISON, General Manager.

Referred to Mr. Barnes - 12-5-03 for explanation, 2 Barnes 12-5-03

- 1- This case is same as that 518, we do
as best to clean with air dusts
but find it a very difficult matter.
Cause Compens air
- 2- Gunny Chamber fills all available space slightly
inside rim, dust gets in between rings
we have had a lot of trouble with the fan
in this chamber when fan stops dust comes in
through fan & air and get it fixed soon

New Village, N. J., 12.4 1903

DEC 8 - 1903
DEC 2 - 1903
WHU 12-4-03
WHU 12-14-03

all Barnes

[ON BACK OF PRECEDING PAGE]

TROUBLE INQUIRY.

Department _____

Part _____

Nature of Trouble _____

#2 Continued-

possible the most dust comes through the
gunner the elevation is about the highest
place on the Plant and under the ammunition
and air tubes into this chamber will be
loaded with fine float dust we take every
opportunity to clean up this matter & blow out
fields & ammunition with air ducts but find this
is not powerful enough we hope new motor
ordered for this part of plant will be more convenient
to clean up. Some about extra space needed
Barrows 2nd ans

12.14.03

Orange office

DEC -9 1903

DEC 21 1903

Number 521

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., DEC -1 1903

Mr. H. S. Moulton, Manager.

On Inspectors Report of Nov. 27th,

Item 2761 Department
Nut off of one bolt in top of rear left column of Elev. #2
Rufman, replace.

- 1- Was this known to men in charge?
- 2- Is the duties of man at elevator such that he has no time to look around & find such things?

THOMAS A. EDISON, General Manager.

Referred to Mr. C. Munn - 12-5-03 for explanation. C. Munn 12/1/03

- 1- it was not
- 2- He has neglected to look and find these things and I have told the men time and again about looking for these things I have told him if he does not do better I don't want him this place is a very bad place as it is a regular air shaft for dust and again he has a bearing on Ratchet shaft that gets hot and it takes a good deal of his time to figure that thing out at this bearing but they don't seem to help

New Village, N. J., Dec 6 190

DEC 11 1903
DEC 2 - 1903

copy
12-7-03

copy
12-18-03

this is to be changed on new clause

Number 529

TROUBLE INQUIRY.

Edison Portland Cement Company.

DEC -1 1903

Orange, N. J.,

Mr. H. B. Kottick

Manager.

On Investigator's Report of Nov. 26th

Item 2732

Department

One bolt out of rear ~~roller~~ ^{splicing} roll retaining collar of
clinker grinder #1 - ~~W. H. Mason~~ ^{W. H. Mason}.

What does it mean to these bolts, does it merely tighten
them or take measures to stop them from coming loose? Without
something is done, this will apparently go on forever.

THOMAS A. EDISON, General Manager.

20 Mr. Mason Dec-3-03

Referred to Mr. Huffman 12-2-03 for explanation.

Read flange off of this bolt which
has occurred several times since securing
note by writing.

I don't know just what to do about this bolt. on the roller
a plan was suggested to cut out all these rollers on future rollers
but it doesn't help these on. there is no room for a larger bolt
would you advise bolts of a different material

New Village, N. J., 12-7-03

1903

W. H. Mason
12-7-03

J. Huffman

DEC 2-1903

Orange office

DEC -9 1903

DEC 11 1903

Number 530

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., DEC -1 1903

Mr. H.S. Foulton, Manager.
On Inspectors Report of Nov. 26th,
Item 2740 Department Packing gland has worked partly out of rear left bearing of blinker grinder #1. J. Willis. Moyer.

What does Hurman do to these bolts, does he merely tighten them or take measures to stop them from coming loose? Without something is done, this will apparently go on forever.

1. Can cutter pins be put in that will not be liable to shear

THOMAS A. EDISON, General Manager.

Referred to Mr. Hurman for explanation. 2 Moyer 12/1/03

1. There are no H's on this bearing gland, cutter pin sheared off

2. On Nov 26th Ring was replaced and bolt drilled for 3/4" cutter pin. More trouble until break of shaft
Dec 10th 1903 Dec 17 1903
W. H. Lupton

New Village, N. J., 12 - 4

190-3

W. H. Lupton
12-7-03

W. H. Lupton
12-15-03

J. H. Lupton

DEC 11 1903

DEC 2 - 1903

Orange office

DEC -7 1903

Number 535

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J.,

DEC -1 1903

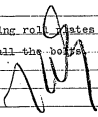
Mr. H. S. Moulton, Manager.

On Log Report of Nov. 27th,

Item 5000 7-54 Department Clinker Fine Grinder

Shut down - Motor driving Con. 140 sparking badly. Electricians
assumed to stop motor. Waiting for machinists to tighten up loose
plate bolts on grinder.

Who is responsible for making roll plates with such a
bad fit to mandril that they loosen all the bolts. This is a job
for a good machinist.



THOMAS A. EDISON, General Manager.

James Macdonald Dec-23

Referred to Mr. Getto 112-3-03 for explanation.

These plates are tested each one as if come
from the Planes + we find them to be .001 slack in
the center which is just as good as is possible to do on our
planes (which is the reason the other man parted with
said machine) This machine + job is being & being
handled by a first class machinist. I am responsible
for this job + will see that all plates are scraped
to a perfect fit in the future

New Village, N. J.,

Dec 4th

1903

AMW
12-4-03

Amabile

DEC 2-1903

Boeing office

DEC 13 1903

Number 536

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., DEC - 1 1903

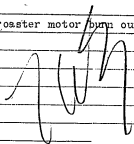
Mr. E. S. Moulton, Manager.

On Lor Report of Nov. 26th.

Item 10-15 Department Roaster Plant

Shut down - Fuse on roaster burnt out.

Why did fuse on roaster motor burn out?



THOMAS A. EDISON, General Manager.

To Mr. Mason Dec-2-03

Referred to Mr. Ed- 12-3-03 for explanation.

The heavy load on roaster is starting up at slow speed did not shift as it does when hot and as it raised as roaster turned drew too much current and blew fuse. If they had started it more rapidly the increasing speed would have generated more e.m.f. and kept current down and saved the fuse.

New Village, N. J., 12/10 1903

*Edison
12/13-03*

B.H. Goodwin

DEC 2- 1903

Orange Office

DEC -7 1903

Number 537

TROUBLE INQUIRY.

Edison Portland Cement Company.

DPC - 1 5003

Orange, N. J.,

Mr. H. S. Moulton, Manager.
On Log Report of Nov. 26th,
Item 4-55 A.M. Department Roaster Plant
Shut down- Cleaning armature on roaster motor.

Why are armatures on Roaster motor required to be cleaned
so often? Is it armatures or commutators? Can anything be done to
stop these continuous troubles with kiln motors, or must it go
right on forever?

THOMAS A. EDISON, General Manager.

2-11-1903

Referred to Mr. Brown - Chief Engineer for explanation.

Commutators, not Armatures

Answer regarding out price between
engineers, that the brush don't crush
but slip and have been
been cleaned. Once Com is made
glazed and in a running condition
that slight sparking is due to copper
brushing on end of brushes and though
the new brushes will not require the
fault but serious. So Com to buy Com

New Village, N. J., 12-4

1903

2-11-1903

More Motion this claim to be the cause

DEC 2-1903

copy file

DEC - 7 1903

DEC 10 1903

Number 541

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., DEC - 1 1903

Mr. E. S. Moulton, Manager.
On Log Report of Nov. 25th,
Item 9-00 Department Chalk Plant
Shut down- Electricians filing commutator of motor Con. 109 (Motor
Dept. sandpapering commutator of motor Con. 113.)

1. What is the nature of the work under the item "sandpapering commutator"? Are skilled men doing the job, or anybody? I have seen commutator-coppers gotten all out of true by inepters doing a lot of sandpapering, so that armature had finally to be taken out and tried up.

2. Masons are the men in Electrical Dept.
Competent to file on commutator
THOMAS A. EDISON, General Manager.
To Mr. Mason Dec 2-13
Referred to Mr. Baron 12-3-23 for explanation.

1. The work in the Electrical Dept
under the supervision of the Electric Dept
the Con- at 109 had become so badly damaged
it was necessary to file down the
ridges in order to get Con in good shape.
This sanding of Commis done both by
Electricians and by inspectors it depended
on the exigencies of the work and was
done by the Electrical Dept are at times
seriously damaged. Now we have one as shown

New Village, N. J., 12-4 1903
1074
12-4-03 Baron over

DEC. 8 - 1903
DEC 2 - 1903

2. answer on reverse side of this sheet.

[ON BACK OF PRECEDING PAGE]

TROUBLE INQUIRY.

Department _____

Part _____

Nature of Trouble _____

#1 Continued-

Motors to clean up I attempt to this
month personally, when possible but something
I have to trust to my men particularly as I
we have several Motors to clean up at
one time we would very much prefer that
the Expert Electrical Men and the work
men do it themselves a lot of work on these
Mits. It was not intended that I should do but
an object there here always to lend all assistance
possible to keep the mill running

#2- The excitement was filled by a machinist from machine
shop.

Sept Mason.

12-9-03

Ameyfile

DEC - 7 1903

DEC 11 1903

Number 546

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., DEC - 1 1903

Mr. H. S. Moulton, Manager.

On Log Report of Nov. 28th,

Item 9-54 Department Chalk Plant

Shut down - Bearing run hot on flexible coupling shaft motor Con. 110, left bearing.

- 1- What was cause bearing on flexible drive Con. 110 running hot?
- 2- Oil hardened oil chains
used for renewals

THOMAS A. EDISON, General Manager.

To Mr. Mason Dec 3-03
Referred to Mr. Moyer 12-3-03 for explanation. B. Moyer 12-5-03

- 1- On Nov. 18th the oil chains in each of the two bearings were in two and caused bearings to heat. The caps were removed and fitted and found no more trouble until Nov 20th when roller pin showed up and left dark ring on it. The cap was run up the road and then separated & looked on same date and found rollers full of fling of oil in oil tracks and clear.

New Village, N. J., Dec 4th 1903

DEC 8 - 1903 12-4-03

DEC 3 - 1903

#2. see memo file

M. B. Moyer

Asst. Engr.

[ON BACK OF PRECEDING PAGE]

#2- Yes air chains and
rivets are casehardened when
received

W M Moyer

Del Sept

Dec 10th 1903

Wm Moyer
12-10-03

TROUBLE INQUIRY.

Department

Part

Nature of Trouble

Orange N.J.

DEC - 12 1903

Number 550

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., DEC - 1 1903

Mr. H. S. Moulton, Manager.
On Inspectors Report of Nov. 30th,

Item 5182 Department
Filter cups on main shaft in clinker fine grinder house have no wool in them. Hoyer, put wool in.

- Why was there no wool in filter cups?
- Did you ever try bad oil? - We did here

THOMAS A. EDISON, General Manager.

Referred to Mr. for explanation.

- We had a lot of trouble getting the ~~new~~ old through filter cups last winter during the cold weather and at that time I think the wool was removed. There is a very fine gauge screen in these cups and I don't think the wool amounts to much one way or the other.
- We never tried our fine mill oil all filter cups were washed out with good oil in them and used up on Dec 1st 1903

New Village, N. J., 12-7 1903 all right Dec 16th, 03

Amos dam wrong
12-19-03

DEC 11 1903
DEC 5 - 1903

Orange office.

DEC - 4 1903

Number 564

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., DEC - 4 1903

Mr. H. S. Moulton, Manager.

On Inspectors Report of Nov. 30th,

Item 2781 Department Large gear on cooler #1 meshes too deep. Huffman, shim up friction wheels, Emergency.

Who is responsible for setting it too deep?

TWY

THOMAS A. EDISON, General Manager.

So the machine Dec-5-03

Referred to Mr. _____ for explanation.

I cannot say who is responsible for setting gear too deep. It has not been changed to my knowledge for some time. I think it was set right originally but I think have been a good many friction wheels changed there has been some wear on supporting rings and supporting ring at one end has to be left alone so to avoid breaking it, which has already happened twice. any of them might be the cause of the deep meshing

New Village, N. J., 12 - 7 - 1903
W H Mason

DEC 5 - 1903

Group office

DEC 18 1903

Number 556

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., DEC - 4 1903

Mr. H. S. Moulton, Manager.
On Inspectors Report of C. Black Nov. 30th,

Item 2789-2788-2790 Department Motor
2789-Motor driving skip hoist is dirty. Barnes, these have been shut down. Why are they not cleaned up?
2788-Motor driving giant feed roll is dirty. Barnes, these have been shut down. Why are they not cleaned up?
2790-Motor driving Con. 101 is dirty. Barnes, these have been shut down. Why are they not cleaned up?

1- What has Barnes to say about this?

2- If a mill is shut down the particular inspector would have very little to do. *[Signature]*
THOMAS A. EDISON, General Manager.
Now why conclude he cannot comprehend this answer at all?
Referred to Mr. Barnes - 12-5-03 for explanation. 2 Barnes 12-5-03

1. *As Motor Inspectors don't. his time to Motor that as running and should clean up these Motor and first add after clearing to some*
2. *The Inspectors always clean Motor during open time also an Inspector calls the fact that these Motor is where shut down also a not have not prove that he had plenty of open time this would still leave the shafts out*

New Village, N. J., 12-14 1903 *Over*
(initials)

DEC 18 1903
DEC 5 - 1903

*ACM
12-14-03*

[ON BACK OF PRECEDING PAGE]

TROUBLE INQUIRY.

Department

Part

Nature of Trouble

weigh house & rock stock to attend to
and when the mill is running it
more than any man can tend to properly
and we have to add assistance sometimes
however I looked at these notes at the
time and found the matter was not
serious

Barnes 1.14.04

W.H.H.
1-14-04

Chas. Miskel

Barnes

Orange office

Number 562

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J.,

12-4-03

Mr. W. S. Moulton,

Manager.

On Log

Report of

Nov. 30th,

Item 7-26

Department

Clinker Fine Grinder

Shut down - Motor of Elev. 131 blew fuse.

What is cause of motor of No. 2 Elevator blowing fuse so many times? What was found wrong with fields? Was motor tested in shop before putting up?

AMH

THOMAS A. EDISON, General Manager.

To Mr. Moulton Dec 8-03

Referred to Mr. Goodrich 12-5-03 for explanation.

The motor frame was not changed. At field coils from shop were put in place of injured coils and another armature was put in. No motor could not be tested except in position. One field coil was found to be reversed and connections on it had to be transposed. Fuse blew on account of excessive armature current due to the weak field.

New Village, N. J.,

12/11 1903

copy
12-15-03

R.H. Goodrich

DEC 3 - 1903

Orange office

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Dec - 8 1903

Mr. H. S. Moulton, Manager.
On Log Report of Dec. 2nd,
Item 5-49 Department Clinker Grinder.
Shut down - Small pulley slipped on shaft that drives governor for feedrolls.

Why did small pulley slip on shaft that drives governor for feedrolls? Is it fastened with set screw?

If pulley has metal hub + pressure
2. secured to hub by set screw
Loose

THOMAS A. EDISON, General Manager.

Information Dec 9-03 - 12/11/03

Referred to Mr. Dicks - 12903 for explanation. Dicks 12-16-03

this is a wood pulley
+ because both hubs are made of wood
the set screw is not tight enough
bottom part of governor pulley is not tight
it is not dangerous to run

2. this being a old wood pulley has no metal hub
but is split and secured to the shaft by clamping with
bolts through the each side of shaft above on in use on line
shaft is almost any shaft or will be made by 3 edge to be clamped
pulley is occasionally loose but is not a major problem

New Village, N. J., Dec 9 1903 1903

DEC 16 1903

DEC 9 1903

W. H. H. H.
12-19-03

Amelia
Dec 16
03

Copy file

DEC 13 1903

Number 587

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., DEC - 13 1903

Mr. H. S. Moulton, Manager.
On Inspectors Report of Dec. 2nd,
Item 2818- Department Motor driving elevator #2 is very dirty. Barnes, clean.

Whose fault?
104

THOMAS A. EDISON, General Manager.

to Mr. Mason Dec-9-03
Referred to Mr. Barnes - 12-9-03 for explanation.

I have tried to give a reason for this dirt on shaft #518. You can't say whose fault, but not the dirty dusty condition exist in this elevator. My would have no trouble in keeping chambers clean would remove that elevator be improved with numerous covered frames from bottom to top also put in compressed air to the chambers with blowers at the several floors so we can blow out all the dirt.

New Village, N. J., 12.14 1903
12-14-03. 1

Orange office

DEC 24 1903

Number 502

TROUBLE INQUIRY.

Edison Portland Cement Company.

DEC - 8 1903

Orange, N. J.,

Mr. H. S. Moulton, Manager.

On Loc Report of Dec. 4th,

Item 2-07 Department Crusher Plant

Shut down- Head pulley slipped Conveyor No. 103. Trying to start belt by stepping on it.

1 Belt slipped on 103 after it was taken up. Why?

2 All of my experience runs counter to the taking out of so much belt, there is something wrong somewhere.

THOMAS A. EDISON, General Manager.

do the man Dec-9-03 12/10/03
Referred to Mr. Filling 12-10-03

for explanation. 2 Pilling

1 Because it had not had enough taken out to offset the expansion that was taking place with the extreme heat from the furnaces. It was taken up 6 times in 6 days, before we got it settled down to proper shape.

2. We have searched for "something wrong" and cannot find it. The belt has had 2 1/2" taken out altogether, 104 along side, has had 9 1/2" taken out, but I understand that this belt had had a lot taken out before. However 103 has run all right all this week, and all indications point to the fact that the extreme heat was the cause.

New Village, N. J.,

11 1903

12/10/03
12-13-03

Dec 19

D. F. Filling

DEC 16 1903

DEC 9 - 1903

Stewartville N.J. 12/19/03

Mr. Thomas R. Edison.

Mr. Mason

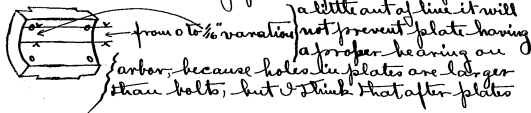
Please note contents of

Orange N.J. this letter stating and
take warning that this condition of affairs
will be changed. ~~now~~ Thomas Edison

Dear Sir

The troubles with the roll plates are the following, the only defect that I can see in the design is that the bolt heads should be larger in diameter is now being done. Nearly all of the troubles with roll plates can be traced to poor workmanship such as heads of bolts not fitting counter bore in plates, Improper locking of bolts, dirt between plates and arbors, dirt between heads of bolts and plates, dirt between nuts and arbor, Nuts up sided down and not on square, Plates flamed from .001" to .005" out of true, Holes drilled from 0 to $\frac{1}{16}$ " out of line with center line of plates. The defects are not always present but have occurred several times in our last run. There is often too much time spent in replacing broken plates and assembling a new set of plates and rolls. Usually the broken plates and bolts, I find at noon, I have twenty minutes to inspect Chalks and Chimer grinders when I find any thing wrong I report it to the foreman in charge as I don't have time to report it to Mr. Mason or Mechanical Dept. The foreman in charge sends a messenger to the Chief of repairs, it requires sometimes twenty minutes to find them as they may be looking after a job some where else, they then send a man to repair the defect, the man does not always know the nature of the trouble and where he goes to the rolls, he finds he does not

Have the necessary tools with him, he will then go back to the shop, get the proper tools, and start on the job. quite often, there is no one to see what he is doing and this is usually when the turn work is done. While this work is being done, I inspect the parts of the plant that I cannot get at when running. The above time lost does not always occur, but has occurred. Some time ago Mr. Huffman told me that he would have two men at each grinder at noon to repair defects, this I think a very good idea, but it has not been carried out, except for one day. They now have a small box at each grinder with some tools in it to repair roll plates, these boxes are not locked and are convenient for mill men to help themselves to tools. There has been time lost by plates touching each other, when this occurs plates are taken back to shop and ground off. if not much is to come off it is done by chiseling them at rolls, the tools are not kept up in good order and there is not enough of them. last Thursday there was plates being put on Chalk and Chinker grinders at the same time, there was two machinist and helpers working on Chalk grinder and had only one wrench, some of the time man on one roll had to wait for the wrench. The heads of several plate bolts have broken on Chinker grinder. This may be due to screwing them up too tight, but I think it is due to holes in plates not being drilled in line with center line of plates. if the holes in plates are



are put on and rolls start to grind, the plates move backward and from the way the rolls are running until the bolts are against the forward side of holes in plates. now the bolt nearest to center line of plate will get the strain first, and if the plate continues to move backward until the hole in opposite end of plate touches bolt, it cannot possibly maintain its proper bearing on arbor and I think caused bolts to break and explains why some plates sound solid when first put on and hollow after running a short time. "

Respectfully yours

M. S. Fayman.

Orange, N. J.

DEC 24 1903

DEC 21 1903

DEC 18 1903

Number 603

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., DEC 19 1903

Mr. H. S. Moulton, Manager.
On Log Report of Dec. 6th,
Item 6-30 Department Clinker Grinder.
Shut down - broken staves on special idler, Conveyor No. 130.

1- Can anything be done to stop trouble with special idlers?

2- *Wmson Try Iron Bars But I think you will find that iron will not last as long as wood - belt lagging or rubber probably be better.*
THOMAS A EDISON, General Manager.

To Mr. Moulton
12/12/03.

Referred to Mr. *Wmson* - 12-13-03 for explanation.

1- *The special idlers are nearly always on the under side of the belt, are 30" long for 36" belt and the belt turns down at the edges, with rather a heavy strain, wearing the idlers rapidly for 3 to 6" from the ends, and when worn nearly when out, the rest of the idler will be good. We try to run these as long as possible to get the limit of service, and are constantly replacing them. Possibly a light iron idler at these particular places would be a good investment. I think this is a very good suggestion that we could use extensively from now on.*

New Village, N. J., DEC 15 1903

Wmson
12-16-03

O F Pilling

DEC 11 1903

DEC 22 1903

Altho that we will try one of each kind.

Wmson
12-22-03

copy file

DEC 10 1903 Number 605

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., *DEC 10 1903*

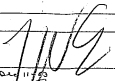
Mr. E. S. Moulton, Manager.

On Inspectors Report of Dec. 5th,

Item 2859 Department

Armature and fields of motor driving Con. 132 are very dirty.
Barnes, there is an air connection just below this. Better con-
nect up, hose and clean.

If hand bellows were carried by inspectors and blown each
day, there would be no accumulation, it will be impracticable to
carry air all over plant. Cannot the bellows be used practically?
Why does dust get into chamber of 132 anyway?



THOMAS A. EDISON, General Manager.

In the morning at 11:00
Referred to Mr. Barnes - 12-13-03 for explanation.

hand bellows are used by inspection & clean
daily but force is not great enough to move
all the dust accumulated by a 50 horse motor
while running so do not ask to have air connect
allow plant we have now got it to 104,110
and by using hose long enough we can
get to most every motor in chalk plant
why not put it in the blower with valve
connection at floor so we can use it
in foregrounds plant when needed

New Village, N. J., 12/10 1903 *over*
107775
12-16-03 *Barnes*

[ON BACK OF PRECEDING PAGE]

TROUBLE INQUIRY.

Department _____

Part _____

Nature of Trouble _____

outside of this Plow we can clean
old motor with air gun, dust gets in
chamber in case after chamber as you
cannot keep it out until the air is drawn
through, gunning this load gun with
fine blast dust which when discharged a
quarter ant-dance dust to go into
chamber is a cloud but is immediately exhausted
and by fan in the rear. Then the note is
gotten rid of this same dust though we always
cover up notes when cleaning gunny chamber
and so far we have had no trouble to keep them
clean this is by no means as simple as it looks on paper

Orange office

Number 607

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., DEC 20 1903

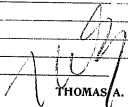
Mr. H. S. Moulton, Manager.

On Inspectors Report of Dec. 5th,

Item 2862 Department

One pawl spring very weak on safety device of Elevator #2. Huffman,
replace using larger wire.

What is being done in way of getting better or rather,
longer and more elastic springs and dust proof oil casing bars?



THOMAS A. EDISON, General Manager.

See memo Dec 11-03

Referred to Mr. for explanation.

This was shown app on sketch 12-11-03 - con
on pulley for wheel
L

New Village, N. J., 12-13-1903

WATMAN

DEC 11 1903

Design Office

Number 608

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., DEC 10 1903

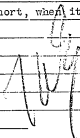
Mr. H. S. Poulton, Manager.

On Inspectors Report of Dec. 5th,

Item 2863 Department

One pawl spring too short on safety device of Elev. #2. Huffman,
replace using larger wire.

Why was spring made too short, when it was known that this
is an important place?



THOMAS A. EDISON, General Manager.

In Mr. Mason Dec 11-03

Referred to Mr. Huffman - 12-13-03 for explanation.

All wire springs were of one length,
but it was bent in a desirable manner
when taken out which made it short but
it never came off the pawl pin.
Larger wire, and this kind of style of spring
is now being used, also longer, which will
prevent this occurring again.

New Village, N. J., 12/15

1903

W.H.W.
12-11-03

J.H. Huffman

DEC 11 1903

Mr. Thomas A. Edison.

Stewartsville N.J. 12/10/03

Orange

N.J.

file

Dear Sir

The troubles with scraper conveyors are the following, thrust of wheels are not large enough, wheels are not kept oiled, rails do not have proper ending at head and tail pulleys, oil plugs wearing on corrugated iron in dust bins, shrinkage of raw hide gaskets under oil cups, when running to one side at head or tail pulleys are left too long before rewinning. Conveyor #134 is in a very bad condition due to not applying the proper remedy (new wheels) the first time there was trouble with it. The gauge of track was changed by Mr. Cony to suit badly worn wheels, shortly after several new wheels were put on and the result was new wheels would climb the rails spread the track throw it out of line and allow worn wheels to run between and off of track. This occurred several times and strained the ropes so bad that it is a hard matter to make ropes track right on head and tail pulleys. The cause of near drive shaft bearing on ^{getting out of line} clinber grinder, #1, was due to bearing not being dowed to girder, this job was done at night the man that done it told me Mr. Rader instructed him not to dowel bearing. It has been discovered (by Hufman & Dills) this afternoon that left roll shaft of clinber grinder #1 is broken in center, rolls have not been taken apart yet and I cannot state nature of break but I think shaft was weakened by putting in screws to secure arbor.

[ON BACK OF PRECEDING PAGE]

236

1 Big black } bottom
 1 small y. }
 possibly 1 more
 one or 2 shown on J.P. 211

109 - black spot
 only cellulos -

172: bottom only
 faint on end -
 1 - one ~~2~~ ~~draw~~ strings

112 2 or 3 black
 spots only bottom

40

Thick line one two
 black spots -

58 - Big black
 possibly 1 weak string on bottom
 not so strong on top

Orange office

10.2.2.1. *Phragmites australis* (Cav.) Trin. ex Steud.Number 61.1

TRouble INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Dec. 27, 1933

Mr. H. S. Foulton, Manager.

On Inspectors Report of Dec. 7th.

Item	5222	Department
4 o'clock A.M., found man asleep in motor chamber of Elev. #2. Noted.		

Who was man found asleep in Motor chamber of Elevator #2.
at 4 A.M. and what is being done about it?

THOMAS A. EDISON, General Manager.

cc Mr. Mason Dec 12-03

Referred to Mr. _____ for explanation.

Wrote him that ~~the~~ man had been discharged but found I was uncertain and had no understanding what former Writ was. His name was Louis he has been discharged two or three days ago.

New Village, N. J., 12-18 1905

DEC 12 1903

Orange N.J.

JAN 21 1904

DEC 12 1903

Number 612

TROUBLE INQUIRY.

Edison Portland Cement Company.

DEC 12 1903

Orange, N. J.,

Mr. H. S. Moulton, Manager.

On Inspectors Report of Dec. 7th,

Item 2877 Department

Steam pipe heating oil pipes to #2 engine shaft leak very badly,
causing wood lagging on front pulley to become wet. 3rd notice.
Before, I understand this was fixed over. What is the trouble?

Why third notice?

2nd Can't this be fixed permanently

THOMAS A. EDISON, General Manager.

John Mason Dec 12-03

Referred to Mr. Morgan 12-12-03 for explanation.

*These pipes have all been repaired three times
the trouble is with the 2" pipe for about 400 ft
crack at the end of the break at bushing on 2nd
and comes down a good deal of shaking and
vibration causes them to crack but I have taken out
a number of bushing cracks in that area*

#2. *I think there are OK now & do not anticipate
any more trouble*

New Village, N. J., Dec 16th 1903

1903

DEC 12 1903

*Wittell
12-17-03*

JAN 2-1904

*Wittell
1-20-04*

Wittell

oil sept

#2

Orange office

DEC 13 1903

Number 614

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., DEC 13 1903

Mr. H. S. Houlton, Manager.
On Log Report of Dec. 7th,
Item Department Quarry
Cars sent to Crusher plant- 187

Why is it that with 187 cars sent to Crusher plant and a
crushing time of 436 minutes, that only 157 cars passed through an
average of 2.81 minutes per train hoisted on 112 tons per hour?

THOMAS A. EDISON, General Manager.

Referred to Mr. Pugh 12-13-03 for explanation.

First item on log shows that we waited
10 3 minutes for truck.
We makes no attempt to crowd feed on current
truck; but to drag it.

New Village, N. J., Dec 14 1903

COAKU
12-14-03

Pugh.

Referred to Mr. Mason for his information,
You will see that there are some things in management
of rolls etc that show ^{at} Stuartville N.J. 12/19/03

Mr. Thomas A. Edison.

Noted by Mr. Mason. Has also told Todd and to investigate the work
of the rolls about get full feed
Orange N.J. 2

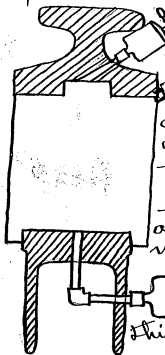
12-19-03. See letter
to Mr. Edison
Dear Sir

DEC 22 1903

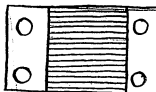
The left shaft of Clincher grinder #1 was a
clean break and was crystallized. I think the shaft was
broken by running rolls with broken plates. The plates
were broken by iron that got in clincher stock house
due to carelessness of men working on conveyor #12.
A short time ago these rolls were run for five hours
at night with broken plates. There has not been many
broken plates on clincher grinders but a large
number have broken on chalk grinders and of
late they are removed as soon as it is discovered
they are broken, when we first started up they
would run for weeks with broken plates. I know
that rope shears on grinders do not get enough oil very
often the oil hole in shaft gets so much oil in it that
oil will run out of end of shaft where oil pipe
enters when this occurs roll men shut off oil
supply, wool packing around the oil pipes entering
shafts does not keep oil in nor dust out, some time ago
I found oil hole in one shaft on chalk grinder
plugged with wool so that oil could not feed to
shear. This was caused by roll men when changing
ropes pulling oil pipe out of end of shaft and
shoving it back in, when pipe was pulled out wool
closed in space occupied by pipe when pipe was
shoved back in wool caught on end of pipe and
went in ahead of pipe closing oil hole.

2

The bottom ginders of climber grinder #1 are worn quite bad (about $\frac{1}{2}$ " deep) would suggest that residuum oil or grease be used as shown in sketch I know it will reduce friction and wear to a very large extent and ~~will~~ can be applied at a small expense.



The use of baffle plates in hoppers of grinders is a bad thing by the use of them you only get about $\frac{1}{2}$ to $\frac{3}{4}$ of the ~~surface of~~ corrugations that does grinding and the ore delivers directly on one cheek plate which wears very rapidly and allows a large amount to pass through without being ground. How would it do to have a set of plates tried with corrugations cast out of center of plate by this the whole surface of corrugations would grind and you would get the desired result in fastening spacing rolls equally. Do not think there is any increase of friction in



rolls except the bearing on dry or ginders and rope shears do not get enough oil, yesterday I had one man to

turn left roll of climber grinder while I inspected plates I never knew one man to turn roll alone before. Could there not be an movable cheek plate next to intermediate roll that would open and close with roll I think it could be operated by the movement of bearings independent of each other. I imagine a large amount of ore passes between cheek plates and

#3

intermediate roll that is not ground. One of the worst troubles in chicken grinding plant is that they cannot get enough feed to grinder #2 to open spacing rolls more than $\frac{3}{8}$ " which is not enough, it is claimed by the foreman to put on more feed will overload Elk #2 and cause feed to blow, last week Brown was off and I spent as much time as I could at chicken grinder I found that one was going over overflow of con #132 and they had con #129 running at its slowest speed (one notch on starting box) and spacing rolls of grinder #2 open from 0 to $\frac{1}{16}$ ". I had them to shut down and shovel out Sdump on con #132 I then discovered that a adjustable plate called for on drawing had been omitted and a large amount of ore was running over overflow that should have gone to grinder I took measurements and made a plate that reduced overflow 4" and put it in at noon in the afternoon they were able to run from 3 to 5 notches on starting box which increased output, would suggest that you appoint some one to spend two weeks at chicken plant and find out why more ^{load} cannot be put on grinder #2 I know that it does not get enough feed and I believe the trouble lies between Sdump of con #132 and the rolls. I have never saw 36" belt driving grinders slip and I know that the belt is too tight. Belt dressing is being used on belt so much that there is path of it on pulleys and belt is $\frac{1}{2}$ " deep I believe that the ~~the~~ belt slipping is imaginary. I discovered to day that a armature shaft taken out of con #125 has a groove worn in it $\frac{3}{32}$ " deep caused by hardened oil chain. This is very serious and there should be no delay in remedying.

Respectfully yours M. D. Joyner.

[ON BACK OF PRECEDING PAGE]

Mason

~~1-6-1909~~
~~1-14-1909~~
~~1-14-1909~~

Orange office

41 23 100

Number 628

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Dec 15 1903

Mr. H. S. Moulton, Manager.

On Log Report of Dec. 10th,

Item 10-26 Department Crusher Plant

Stop feed- Dryer choked.

What caused Dryer to choke on carbonate which I have understood does not choke.

AWY

THOMAS A. EDISON, General Manager.

To Mr. Moulton Dec 16-03

Referred to Mr. Pingree 12-16-03 for explanation.

Carbonate rock was very dirty and wet clay mixed with it. Worked badly then coming also. Another reason - We was having over 100 aligned this A.M. and had been waiting some time for rock. I neglected to give fishermen time enough to get engine thoroughly hot. Consequently one would not then slide from tangle plates readily. We had let pins go down while waiting for rock. It was necessary to run shakers during rest of day to keep plates clean.

New Village, N. J., Dec - 16 1903

Appleby
12-15-03

Pingree

DEC 16 1903

Comp office

DEC 16 1903

DEC 16 1904

Number 631

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., DEC 15 1903

Mr. H.S. Moulton, Manager.

On Log Report of Dec. 10th.

Item 8-00 Department Clinker Grinder

Shut down - Coupling bolt loose on grinder.

What coupling bolt was broken and how? This is new.

2nd Mason How about chg 2

[Handwritten signature]

THOMAS A. EDISON, General Manager.

Referred to Mr. *Edison* - 12-16-03 for explanation.

The Bolt that was broken was in coupling that connects Drive Pulley with roller. I cannot not account for it other than it was pulled up to hard as it was not on duty on account of sickness.

I think the above is the reason for bolt breaking.

New Village, N. J., Dec 17 190

Edison
12-18-03

Edison
1-12-04

J. B. Brown

DEC 16 1903

JAN 2-1904

#2

large office

DEC 15 1903

Number 640

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J.,

Dec 15 1903

Mr. H.S. Moulton,

Manager.

On Log

Report of

Dec. 11th,

Item 6-18

Department

Clinker Grinder

Shut down - Dust rings worked out of bearings on flexible shaft on elevator No. 131. Waiting for oil men to pack bearing and put rings in.

Why did dust rings work out on bearings on Elevator 131? Is it because cotters shear? I understand every time this occurs, holes are drilled larger and larger pin put in. Wouldn't it be better to go through the plant now at important points and make the change rather than to wait until the trouble develops? Here is a loss of 71 minutes that probably could have been prevented, as I read the log. Will Mr. Mason take this matter up and kill this bug once for all? It is coming to the front too frequently, as reports show.

THOMAS A. EDISON, General Manager.

to Mr. Mason Dec 16-03

Referred to Mr.

for explanation.

I have ordered large cotter pins put in all blower packing boxes - Blower fan Roll hangers + flexible drives. I think there are the plans that cause them to work.

New Village, N. J.,

12-15-1903

W.A.M.

DEC 15 1903

Wm. H. HENDERSON,
PRESIDENT.W. M. MALLORY,
TREASURER.W. M. PRADON,
TELEGRAPHER.THOMAS J. CHASE,
SECRETARY.THOMAS A. EDISON,
SUPERVISOR.

THE EDISON PORTLAND CEMENT CO.

TELEGRAPH AND PASSENGER STATION, NEW VILLAGE, N. J.

(P. O. ADDRESS) STEWARTSVILLE, N. J., Dec. 15, 1903.

In his Special Inspector's report.

Mr. Thomas A. Edison, G. M.,

Orange, N. J.

Dear Sir:

*Wm - what do
you think of this
Edison*

Wire ropes on 3 high rolls. These ropes wear out on the outside. The inner wires of samples I have examined are in good condition. The ropes show plainly that they have been chafed off by rubbing against something where they should not. This seems to be due to wrong alignment of the idlers and improper shape of grooves. I understand that these sheaves were provided with $3/4$ " grooves having straight sides and $3/8$ " radius at the bottom.

If they were made with $5/16$ " radius at the bottom, and with sides forming an angle of 30° , or as near this as the width of the sheaves would permit, I think the trouble would disappear. The difference between the lives of the ropes at the chalk rolls and at the clink or grinder seems to me to be of little consequence. Both are running under bad conditions and with bad results.

I would recommend changing the grooves on the grinder now out of commission at once.

Yours truly,

A. L. Goddard

DEC 18 1903 DEC 22 1903 DEC 24 1903

Referred to

Instructions

Insured by *W. H. M. 12-12-03 - See letter to*.....19..... *M. Edison*

See office

DEC 12 1903

Number 644

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., DEC 11 1903

Mr. H. S. Moulton, Manager.

On Inspectors Report of Dec. 10th,

Item 2894 Department

Wood lagging is wearing very rapidly on lower special idler next to head pulley of Con. 132. Pilling, is the brush here O.K.?

Will Mr. Mason try the experiment of covering a new special idler with belting lagged on or pure 1/8 rubber to see if this wear cannot be diminished? Do brushes diminish wear? This special idler is getting to be a nuisance and something should be done in the way of experiment to cure the evil.

THOMAS A. EDISON, General Manager.

See Mr. Mason Dec 17 1903
Referred to Mr. *W. H. Conroy* set of pencils for explanation.
as advised 12-15-03

We are about to try some changes in these idlers with a view of stopping the trouble.

These special idlers do very heavy work, and I don't believe they wear out any quicker in one place than another. They have been running about an equal length of time, and each conveyor has had its share of the trouble. But all giving out practically about the same time gives the appearance of rapid wearing more so than is really the case.

New Village, N. J., DEC 19 1903

W. H. Conroy
12-21-03
07 Pilling

DEC 17 1903

copy of file

DEC 21 1903

Number 649

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., DEC 16 1903

Mr. H.S. Moulton, Manager.

On Inspectors Report of Dec. 11th,

Item 2898-2899 Department

2898- Three mesh broken in rear bottom screen of dryer #7. Huffman, replace.
2899- One mesh broken in front bottom screen of dryer #7. Huffman, replace.

Where is Dryer No. 7? This is a new one on me, or perhaps these reports are not read by persons who should read them, consequently mistakes not detected. Perhaps it is Dryer No. 3. If so, I notice it is marked for Huffman to replace. Do I understand that whole screen plate is removed when one mesh is broken or is it meant that a patch be put on. I understood patching was O.K. where there was only one or two holes.

THOMAS A. EDISON, General Manager.

In the morning Dec 17-03
Referred to Mr. *Jayne* - 12-17-03 for explanation.

This was marked dryer #1 on inspectors book, & do not see them after they are type-written. The patching is all right until screen is badly worn, then it is more economical to remove. W.A.H. 12-18-03,

I ask reports after they are type-written and sent to blame for mistakes.

New Village, N. J., 12/15 1903

looked 12-15-03

M.A. Jayne

DEC 17 1903

I never sign a document of any kind without first reading it over and in this case. I did not reply that the numeral used was incorrect. 11/19/03 H.S. Moulton

Orange Office

Oct 16 1903

Number 656

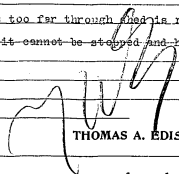
TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., Oct 16 1903

Mr. H. S. Moulton, Manager.
On Log Report of Dec. 12th,
Item 8-26 Department Crusher Plant
Cars stuck in switch at foot of incline, Cause: cars pushed too far through shed.

Pushing cars too far through shed is reported right along.
I have asked twice if it cannot be stopped and have received no answer.



THOMAS A. EDISON, General Manager.

In This Matter See 17-23

Referred to Mr. _____ for explanation.

I wrote you an explanation of this trouble day that is when there was a bout 20 or 25 cars here & the switch was got them stuck. I could not always stop them just in place & could not pull them back if it too far. I have had a sign painted showing when to set cars. One reason for the main cause is that Pugsley has changed the supposed location of the car since cold weather.

New Village, N. J., 12-18 1903

Cotton

DEC 17 1903

W. H. MCKENNAUTH,
President.

W. S. MALLORY,
Vice-President.

W. M. FILLARD,
Treasurer.

THOMAS J. CHASE,
Secretary.

VINCE A. EDWARDS,
Chief Engineer.

THE EDISON PORTLAND CEMENT CO.

TELEGRAPH AND PASSENGER STATION, NEW VILLAGE, N. J.

(P. O. ADDRESS) STEWARTSVILLE, N. J. Dec. 16, 1903.

IN RE MOTORS:

Mr. W. S. Mallory, V. P.,
Orange, N. J.

Dear Sir:-

Referring to your letter of the 5th inst., in re matter of taking ammeter readings of motors at stated intervals, I beg to report that, after having discussed and experimented on this subject for a time, Mr. Goodwillie devised a portable connection which can be attached to the terminal boards, by which means readings may be taken without shutting down the motor.

Mr. Goodwillie has already taken readings at various points on the plant, and this work will be pursued as fast as will be found to be consistent with giving the regular and emergency work the necessary attention.

Following is a statement of readings taken in Chalk Grinding Plant, up to the 12th inst., to wit:

Switchboard reading 480 amperes, average load.	
R.F. to No. 109 and Dynamo for same, -----	2
Conveyor No. 109 -----	135
Conveyor No. 110 -----	80
R. F. to Grinding rolls -----	10
Conveyor No. 111 -----	35
Blowers -----	100
Conveyor No. 112 -----	33
" 113 -----	32
" 114 -----	31
" 115 -----	30
	488 Amperes.

W. S. Mallory
170123

Slouchy
7/12/03

to the
all right for
Blowers
empty

Mr.W.S.M.....2.

This is a good average load for the Chalk Plant. The ammeter at switchboard varies from 360 to 550 amperes. The blowers alone will vary 60 amperes from slowest speed to fastest speed. Conveyor No. 109 sometimes goes to 200 amperes.

We will be pleased to carry out any further instructions which you may have to give us upon this subject.

Yours truly,

H.S.M.

The Edison Portland Cement Co.,

M. S. Newton

Wm. H. BURBANK, JR.
PRESIDENTW. B. MILLER,
TREASURERW. S. PHILLIPS,
VICE-PRES.THOMAS A. EDISON,
MANAGINGTHOMAS A. EDISON,
MANAGING

THE EDISON PORTLAND CEMENT CO.

TELEGRAPH AND PASSENGER STATION, NEW VILLAGE, N. J.

(P. O. ADDRESS) STEWARTSVILLE, N. J., Dec. 19, 1903.

IN RE Special Inspector's Report.

Mr. Thomas A. Edison, G. M.,

Orange, N. J.

Dear Sir:

Jacking 3-high rolls apart: The rolls do not spread alike on both ends. The front end on all three 3-high rolls ordinarily opens the widest. Sometimes they will run for hours with the front end open $1\frac{1}{2}$ ", and the back end open $1\frac{1}{16}$ ". This, of course, is measured at the friction rolls. Mr. Mason tells me that he has seen the back end open the widest for a short time, but they will not stay that way, but soon change over to the usual position. On Dec. 16, #2 grinder ran with front end open $1\frac{1}{2}$ ", and back end open $1\frac{1}{16}$ ", practically all the time it was running. Dec. 17, in the morning the chalk rolls were open $3\frac{3}{8}$ " and $1\frac{1}{16}$ " when the feed was heavy with feed light owing to hanging up in the "Bijou", rolls were open $3\frac{1}{16}$ " and $1\frac{1}{32}$ ". On Dec. 17, at noon, Mr. O'Brien put a deflecting plate in the chute about ^{6 in.} ~~2 ft.~~ above the rolls, so as to throw the feed to the back side. When started up the front side opened $1\frac{1}{16}$ " and the back side $1\frac{1}{3}$ ". They ran this way about 20 minutes. Upon increasing the feed they swung over to the old conditions, and ran that way till shut down. On Dec. 18, in the morning, they quickly took the customary positions, open on the front side about $1\frac{1}{2}$ ". I had a 1" sq. bar turned up at one end to hook into the gain cut out on one corner of the bearings and with a chain, led out to the end of the housings, and a crowbar, I exerted an estimated pull of 5,000#, but could

Sheet: ::::: 2

Mr. Thomas A. Edison, G. M.

not spread the back side. Later in the morning, after a shut-down for repairs to the elevator, Mr. O'Brien, on starting up, reduced the air to about 35#, till the back side of the rolls were, with light feed, spread the most. This time when the feed and air pressure were increased, the rolls did not swing back to the customary position, but became nearly even with the back side open a little the widest. The distances were, for the rest of the morning run, and the afternoon run, about $3/16$ " and $3/8$ ", and $1/4$ " and $1/4$ ". Once when the rolls seemed to be swinging over to the old position, but before they had become very uneven, and estimated pull of 1,000# seemed to bring them back. I would want to repeat this a number of times before convinced of the fact, but did not want to interfere with "well enough" condition of running.

Sometimes the rolls become so bound by cramping and dust in this oblique position that they do not come together when shut down. Then a jack has to be used. There is a generally prevalent theory^{here} that this uneven opening is due to the direction of lead of the rope over the tightening idler. This theory absolutely will not hold water. If the resistance of the tightening idler were appreciably greater than the other idlers, the front side of the rolls would have the greatest tension in the ropes, whereas the front side ordinarily opens the widest. I think this unequal spreading of the rolls is due to unequal friction and a sort of ratchet action of the dust. There may be a slightly unbalanced effect of the feed to the rolls, but no lack of symmetry of chute can be noticed. I think that grease cups in the girders over and under the center of each bearing will reduce, if not cure this trouble. If the grease were kept flowing from center of bearings to outside, the dust could not work in. If it does not remove the trouble, I think a few

Sheet.....#3.

Mr. Thomas A. Edison, G. M.

hundred pounds load introduced either by counterweight or spring, and adjusted occasionally will complete the cure. When running with the rolls apart on each side about $1\frac{1}{4}$ ", they passed about all Mr. O'Brien thought the elevator could carry. There is to be an ammeter on the elevator motor today, and I will try to get the weight of fair samples of load in several buckets. There is rarely more than 3% in the by-pass, and I have never seen more than 5% there. I shall continue to watch this when opportunity offers.

Yours truly,

A. L. Goddard

Wm. H. HERRMANN,
PRESIDENT.W. M. HALLIST,
TREASURER.W. R. FILLARD,
SUPERVISOR.THOMAS L. CHASE,
SECRETARY.THOMAS A. EDISON,
ENGINEER.

THE EDISON PORTLAND CEMENT CO.

TELEGRAPH AND PASSENGER STATION, NEW VILLAGE, N. J.

(P. O. ADDRESS) STEWARTSVILLE, N. J., Dec. 21, 1903.

IN RE Special Inspector's Report.

Mr. Thomas A. Edison, G. M.,
Orange, N. J.

Dear Sir:

3 High Rolls, supplementary to Dec. 19: On Saturday morning the rolls spread widest on the front side, and 6,000# pull on the bearings would not change them. Later, when the air and feed were manipulated so as to spread them evenly, 6,000# pull would not hold the back side open, but the rolls swung around gradually till the front side swung open about $1\frac{1}{2}$ ", and the back side was open about $1\frac{1}{16}$ ".

The back side of these rolls is the drive side.

Nearly all the load of the conveyor went through the rolls; very little went down the by-pass.

The ammeter readings on Elev. 131 during the morning varied from 175 to 200 amperes. Most of the time it was about 185 amperes. At noon, Mr. O'Brien and I fixed the load in two buckets to correspond as well as we could judge to these conditions, 190 amperes and 175 amperes. The heavier load weighed 105#, and the lighter load weighed 80#. The buckets moved at the rate of from 107 to 110 buckets per minute. The pitch of the buckets is 2', so that the elevator runs from 214 to 220 ft. per minute. With the motor running 700 R. P. M., the elevator should run 222' per minute. Allowing 105# per bucket, and 110 buckets per minute, the rate of passing of material is about 345 tons per hour. This

Sheet.....#2.

Mr. Thomas A. Edison, G. M.

seems very high, but, allowing 80# per bucket and 110 buckets per minute, we would have 264 tons per hour. While this is still high, it is quite certain that the elevator generally carries more than 264 tons per hour. The lower chilled plates in the hopper over the rolls are worn off at the corners, and it is probable that a good deal passes down that way. There are 136 buckets in the conveyor, and, of these, 65 are loaded and moving up at 220 ft. per minute. At 105# per bucket this is equivalent to 45.5 H. P., and at 80# per bucket this would make 35 H. P. If the current consumption were correspondingly 190 amperes and 175 amperes, this would give total motor and machinery efficiencies of 78% and 66%. The former is probably too high. The latter seems to me to be about right.

The rolls come together to within about 1/16" at the ends and 1/8" at the middle where worn.

Yours truly,

A. L. Goddard

Engineering

DEC 20 1903

Number 672

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., DEC 22 1903

Mr. H. S. Moulton Manager.

On Log Report of Dec. 16, 1903

Item Roaster Plant Department

12.55 P. M. Shut down to clean commutator on roaster motor.

Ques
Is commutators on kiln motors still troublesome? Didnt cutting of mica cure the sparking? Why is it necessary to clean commutator. There seems to have been three times in 24 hours. Why is this?

THOMAS A. EDISON, General Manager.

Referred to Mr. Mason, DEC 23 1903

Referred to Mr. *Warren*, DEC 27 03 for explanation.

Issue was out on both kiln motors about Nov 26 it was cut down about 11/4

These motors have run all right until about Dec 14 when they commenced to give trouble again it was found then that copper had worn down to mica again.

We have now commenced to use a different brush which

New Village, N. J., 12/28

1903

W. A. Warren

DEC 23 1903

*W. A. Warren
12/29/03*

(Over)

[ON BACK OF PRECEDING PAGE]

is softer + contains more
graphite which I think will
cause much less wear on
commutators.

Manager, N. Y.

Manager

Post of

Department

Head

TROUBLE INQUIRY

Department

Part

Nature of Trouble

THOMAS A. EDISON, General Manager

for explanation

Orange office

Number 677

TROUBLE INQUIRY.

Edison Portland Cement Company.

Jan - 2 1904

Orange, N. J., DEC 23 1903

Mr. H. S. Moulton Manager.

On Log Report of Dec. 15, 1903

Item 8.08 Department Crusher Plant

Frozen ore in hopper under Giants arched over

At Edison we heated bottom of giant hopper with steam pipes in
contact with iron outside.

THOMAS A. EDISON, General Manager.

Referred to Mr. Mason, DEC 23 1903

Referred to Mr. _____ for explanation.

*We have ordered a radiator coil to be
put up against hopper + will buy Edmund.*

New Village, N. J., DEC 12 29 1903

W. H. Mason

DEC 23 1903

Orange office

Number 684

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J.,

Mr. H. S. Moulton Manager.

On Log Report of Dec. 14, 1903

Item 10/25 Department Clinker Fine grinder

Three belt hooks broke in drive belt of grinder. Waiting for belt men to put new hooks in belt. Mill men helping belt men and cleaning mill 161 minutes.

Day run on fine grinder is a pretty tough styling

Why did it take two hours and forty minutes to put three belt hooks in 36" drive belts.

THOMAS A. EDISON, General Manager.

Referred to Mr. Mason. DEC 23 1903
Referred to Mr. Pulling 12-23-03 for explanation.

This was a night job. With a belt man who has not had much experience with such matters. But even at this time is not very bad.

The better these clutch hooks are put in. The longer it takes to get one out. This has to be done very carefully to avoid damaging the belt, and the best thing we have been able to make with a single one is about one hour.

New Village, N. J., DEC 24 1903

O F Pulling

DEC 23 1903

Orange office

Number 687

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J.,

Mr. H. S. Moulton Manager.

On Log Report of Dec. 14, 1903

Item 5.34 Department Clinker Fine Grinder

Belt hooks broke on drive belt. Waiting for belt men to put new hooks

in belt. Mill men helping belt men.

What caused belt hooks to break on drive belt. My experience all goes to show that when belt hooks are of right kind that they will not break so soon after using except that belt is of own up entirely too tight. The belt should slip first, if it slips when fairly tight find out reason and don't draw up belt to limit. There is something wrong here and has been wrong for some time.

THOMAS A. EDISON, General Manager.

Referred to Mr. Mason. DEC 23 1903

Referred to Mr. Pilling 12-23-03 for explanation.

The principal cause of breakage, was that the hooks were weak in the back, not in the hook part, with all we have used we have never had but one pullout. We were compelled to use these fasteners owing to the delay in receiving others which had been ordered by Xpress on Dec 2nd and consequently had to stand the trouble. Again I admit that the belt was too tight, it had been cut off to enable the repairmen to put new shears bushings in the pulley, and when we cut off this belt, it must stand a take up of 4", or otherwise have a new filler part in making 2 cuts and a filler 8" longer.

New Village, N. J., Dec 24 1903

We must take a chance of drawing up the 4" when we think it possible, otherwise we would either have to have a belt factory right here, or put in more fillers. I wish to say that I

DEC 24 1903

[ON BACK OF PRECEDING PAGE]

think we are about through with these breakages on this belt. as we have the kind of books we want. they are in good, and we expect a good run out of it as now fixed,

Wm. H. H. H.

TROUBLE INQUIRY.

Department

Part

Nature of Trouble

copy file

DEC 29 1903

Number 688

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J., DEC 22 1903

Mr. H. S. Moulton Manager.

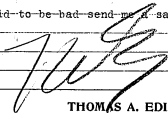
On Inspectors Report of Dec. 16, 1903

Item 5281 to 5286

Department

Oil wanted in gear case, Con. 113, 114, 111, 109, 112, 110.

Why is oil wanted. Has it leaked out or is oil bad. If leaked out cant it be stopped. If oil is said to be bad send me a sample.



THOMAS A. EDISON, General Manager.

Referred to Mr. Mason. DEC 23 1903

Referred to Mr. *Morgan*, 2-23-03 for explanation.

*The above gear boxes were all received on Dec 16th 03
The oil does not look out but wears and gets thick and dark and a little short of the proper amount of oil
Will send sample next time any of them are received*

New Village, N. J., DEC 24 1903

1903

*Mr Morgan
oil Sept*

*High
10/20/03
Although little
oil. I did not
recieve this until
the 10th*

DEC 23 1903

Orange office

DEC 29 90

Number 689

TROUBLE INQUIRY.

Edison Portland Cement Company.

Orange, N. J.,

DEC 22 90

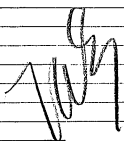
Mr. H. S. Moulton Manager.

On Inspectors Report of Dec. 16, 1903

Item 5277 Department

Several wheels dry on Conveyor 139. Moyer, XXXXX Examine dry wheels and see if there is oil in cup.

Are you trying grease in wheels?



THOMAS A. EDISON, General Manager.

Referred to Mr. Mason. DEC 23 1903

Referred to Mr. Moyer 12-23-03 for explanation.

I have taken up some oil cups on conveyor
70 113-139- which were sealed with petroleum
oil. Had plenty in them but would not go through
to thrust.
Have put some grease in cups of Belvidere No 2
con 114-118 but have not seen today enough to get
any result from them as yet

New Village, N. J. Dec 24th

1903

Mr. Moyer

Oil Dept

DEC 23 1903

Although I do not
do not know if
will be done
Moyer 12/24/03

**Edison Portland Cement Company Records
Plant Operations - Mill Log Transcripts (1904-1918)**

This folder contains documents regarding daily operations at the Stewartville works. Included is information about the crushers; the quarry; and the weighing, mixing, chalk, coal, and roaster plants. Many of the items bear Edison's initials, as well as calculations that were possibly made by him.

Less than one percent of the documents have been selected. The selected items contain substantive notations by Edison.

Transcript of HILL LOG for FRIDAY, MAY 20, 1904.

--00000000--

Run Loss Folio

Grinder: No. 2.

Note: Putting through spill from cleanings of mill last winter.

7.00	Waiting for speed				4
7.04	Grinding			296	
12.00	Shut down - Lunch				
12.20	Making up shear, one shear pin fast				40
1.00	Waiting for speed				3
1.03	Grinding			247	
5.10	Shut down for day			<u>Y</u>	
	Running	543"	92.03%	543	47
	Loss	4"	7.97%		
	Total	590"	100.00%		

7.00	A.M.	56194		
5.10	P.M.	58247	587 Bbls.	65.2 bbls. per hour.

Other departments not in operation.

$$\begin{array}{r} 100 \\ 69 \\ 61 \\ 90 \\ \hline 340 \end{array}$$

77
75
82
98
93
91
84
93
76
97
82
90
94
73
86
50
52

per hour.

86.2	°/s	line
79	%	including all

567 all 44/60
611
last 21, 60

30 3 40
2 2 46
2 5 60
2 4 60
1 4 60
660

$$\begin{array}{r} 25^{\circ} 33' \\ 23^{\circ} 33' \\ \hline 2^{\circ} 00' \end{array} \quad \begin{array}{r} 49^{\circ} \\ 6' \\ \hline 55' \end{array}$$

The Wilson Portland Cement Co.

JUL 3 1904
5 P M

Transcript of Mill Log for SATURDAY, JULY 2, 1904.

Time	CEMENT ROCK.	QUARRY:-	Run Loss Folio
7.00	Loaded 21 cars.	20 minutes of the time switching cars and out	in
7.45	Waiting for cars.		
8.25	Loaded 6 cars.	4 minutes switching.	
8.35	Waiting for cars.		
9.05	Loaded 11 cars.	8 minutes switching.	
9.25	Moving up and cleaning truck.		
9.40	Loaded 10 cars.	4 minutes switching.	
10.00	Quarrying down stone.		
10.40	Loaded 11 cars.	5 minutes switching.	
10.55	Waiting for cars.		
11.05	Loaded 11 cars.	5 minutes switching.	
11.20	Moving shovel.		
11.25	Loaded 22 cars.	10 minutes switching.	
12.00	Lunch.		
12.30	Waiting for cars.		
1.45	Loaded 15 cars.	10 minutes switching.	
2.15	Waiting for cars.		
2.30	Car off track.		
2.40	Loaded 13 cars.	5 minutes switching.	
3.00	Loaded 15 cars.		
3.30	Car off track.		
3.40	Loaded 15 cars for dump.		
5.10	Shut down for day.		
Cars sent to crusher			135
Cars sent to Waste Pile.			16
Hours drilling,			48
Feet drilled.			145

Mallory

Went feet drilled per drill ~~crew~~ of 2

This report made wrong -

Can't ascertain the minutes lost in
waiting for Cars - Have it made

Like McC second then we can
get at pass time & possibly get a
second degree

Σ

THE EDISON PORTLAND CEMENT CO.

Transcript of Mill Log for FRIDAY, Nov. 24, 1905.

--000--
QUARRY

Time		Run	Loss	Folio
	Carbonate rock; carbonate cut.			
7.00	Waiting for cars			15
7.15	Loaded 14 cars	30		
7.45	Waiting for cars			30
8.15	Loaded 7 cars	10		
8.25	Moving up steam shovel			10
8.35	Loaded 8 cars	20		
8.55	Waiting for cars			85
10.20	Loaded 14 cars	20		
10.40	Waiting for cars			80
12.00	Lunch			
12.20	Waiting for cars			45
1.05	Loaded 18 cars	40		
1.45	Waiting for cars			30
2.15	Loaded 18 cars	35		
2.50	Waiting for cars			25
3.15	Loaded 7 cars	10		
3.25	Cleaning slide off of loading track			20
3.45	Loaded 11 cars	25		
4.10	Waiting for cars			60
5.10	Shut down for day			
		190	400	
	Running 190"	32.20%		
	Loss 400"	67.80%		
	590"	100.00%		

Cars sent to Crusher
Cars sent to Waste Pile

97.
None.

	Cement rock; cement cut.			
7.00	Loaded 16 cars	45		
7.45	Waiting for cars			55
8.30	Loaded 19 cars	40		
9.30	Waiting for cars			130
11.40	Loaded 8 cars	20		
12.00	Lunch			
12.20	Loaded 7 cars	20		
12.40	Waiting for cars			125
2.45	Cleaning slide off of loading track			20
3.05	Loaded 18 cars	50		
3.55	Waiting for cars			75
5.10	Shut down for day			
		175	415	
	Running 175"	29.65%		
	Loss 415"	70.34%		
	590"	100.00%		

Cars sent to Crusher
Cars sent to Waste Pile

68.
None.

Keystone Drill:
Feet drilled
2 Drillers
2 Helpers

59.
23 Hrs.
23 Hrs.

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Mill Log..2. 11/24/05.

CRUSHER PLANT

Time		Run	Loss	Folio
7.00	Waiting for steam		29	
7.29	Crushing cement rock	28		
7.57	Shut down; shear on 1st 36" rear roll; 2 pins were only sheared; could not get them out; started up until 3rd pin sheared		17	
8.14	Crushing	6		
8.20	Shut down; shear on 1st 36" rear roll; took wabblers out to drive shear pins out. See above		40	
9.00	Crushing	13		
9.13	Moving tripper from bin #6 to bin #1		5	
9.18	Large rock stuck in hopper over giant rolls		10	
9.28	Shut down; no steam		22	
9.50	Crushing carbonate rock	23		
10.13	Shut down; no steam		12	
10.25	Crushing	26		
10.51	Shut down; no steam		27	
11.18	Stone in 1st 36" roll; rolls would not start		3	
11.21	Crushing	6		
11.27	Shut down; gate over 3rd 36" rolls partly closed; filled hopper to 2nd 36" rolls; new man got scared and shut down which caused 3rd 36" rolls to choke		28	
11.55	Crushing	3		
11.58	Shut down; no steam		2	
12.00	Lunch			
12.20	Crushing	37		
12.57	Shut down; no steam		39	
1.36	Crushing	97		
3.13	Shut down; no steam		88	
4.41	Crushing	6		
4.47	Stop feed; chute to conveyor #99 choked		13	
5.00	Crushing	10		
5.10	Shut down for day			
		255	335	

Running 255" 43.22%
Loss 335" 56.78%
590" 100.00%

Crushed 28 cars cement rock; placed in bin #6
" 105 " " placed in bin #1
133 "

Placed 348 cars of cement rock in bin #6.

--ooc--
MIXING PLANT

7.00	Redrying bin #1 to #3	30
7.30	No bins ready	
8.58	Redrying bin #6 to #5	182
12.00	Lunch	
12.20	Redrying	290
5.10	Shut down for day	502

Running 502" 100.00%

--ooc--
WEIGHING PLANT

7.00	Weighting from bins #2 and #4	180
10.00	Shut down for day; bijou supplied	
	Running 180" 100.00%	

30 Weighings:

Cement rock	632070 lbs.	316 tons	70 lbs.
Carbonate rock	411940 "	205 "	1940 "
	1044010 "	522 "	10 "

--ooc--

Mill Log...3a 11/24/05.

CHALK PLANT

Time	Day	Run	Loss	Folio
7.00	Grinding with #2 machine	3		
7.05	No steam		25	
7.28	Grinding	10		
7.38	No steam		32	
8.10	Grinding; had some trouble getting right roll started this item	50		
9.00	Shut down; no steam		490	
5.10	Shut down for day	63	547	
	Running	63"	10.50%	
	Loss	537"	89.50%	
		800"	100.00%	

Air pressure 100 lbs.

Amps. Con. #110 150-175.

Rev. Bijou feed roll 7.00 A.M. 259805

Rev. Bijou feed roll 5.10 P.M. 259954 17 tons average 16 tons per hr.

NIGHT:

6.00	New cable on #2 machine; cable ran 55 hours 15 Min. Put on standard rope; tucked, spliced by Dodge (dry rope)		47	
6.47	Grinding	73		
8.00	No steam		5	
8.05	Shut down; right roll stuck fast when starting up. Stuck fast right side in thrust end of #2 machine; repair men working on it; mill men helping repair. "Cause of roll sticking unknown at this item"		595	
6.00	Shut down for night	73	547	
	Running	73"	10.14%	
	Loss	647"	89.86%	
		720"	100.00%	

Air pressure 100 lbs.

Amps. Con. #110 125-150.

Rev. Bijou feed roll 6.00 P.M. 259954

Rev. Bijou feed roll 6.00 A.M. 260354 45 tons average 38 tons per hr.

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COAL PLANT

6.00 A.M.	Running	395	
12.35 P.M.	Bin full		
2.45 P.M.	Running	150	
5.15 P.M.	Shut down; changing shifts		
5.35 P.M.	Running	150	
8.05 P.M.	Bin full		
10.15 P.M.	Running	255	
2.30 A.M.	Bin full		
4.45 A.M.	Running	75	
6.00 A.M.	Running	1025	
	Running	1025"	100.00%

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ROASTER PLANT

Roaster #1		385	
6.00 A.M.	Running		
12.25 P.M.	Shut down; patching and repairing bad clinker conveyor		45
1.10 P.M.	Running	125	
3.15 P.M.	Shut down; changing xxxx coal feed motor		70
4.25 P.M.	Running	215	
6.00 A.M.	Running	1325	115

Mill Log..4. 11/24/06.

ROASTER PLANT

Time	Running	Loss	1325"	92.01%	115"	7.99%	1440"	100.00%
Indicator reading:	6.00 A.M.	48569						
	6.00 A.M.	88817	872 bbls., average 40 bbls. per hour.					
	Coal consumed	72520 lbs., average 84 lbs. per barrel.						

--oOo--

Roaster #2.	6.00 A.M.	Shut down; on account of chalk being low	1440
	6.00 A.M.	Shut down	
		Loss 1240"	100.00%

XXX

Roaster #3.	6.00 A.M.	Running	1440
	6.00 A.M.	Running	
		Running 1440"	100.00%

Indicator reading:	6.00 A.M.	395808	791 bbls., average 33 bbls. per hour.
	6.00 A.M.	453320	
	Coal consumed	68420 lbs., average 86 lbs. per barrel.	

--oOo--

Roaster #4.	6.00 A.M.	Running	1440
	6.00 A.M.	Running	
		Running 1440"	100.00%

Indicator reading:	6.00 A.M.	508107	710 bbls., average 30 bbls. per hour.
	6.00 A.M. <td>540892</td> <td></td>	540892	
	Coal consumed	60455 lbs., average 85 lbs. per barrel.	

--oOo--

CLINKER CRUSHER

6.00 A.M.	Shut down; repairing shaft on conveyor #126	50	750
6.30 P.M.	Running		
7.20 P.M.	Shut down; fuse blew on conveyor #127; cause unknown		
7.55 P.M.	Running	605	35
8.00 A.M.	Running	655	785

Running	655"	45.49%
Loss	785" <td>54.51% </td>	54.51%
	1440"	100.00%

--oOo--

CLINKER FINE GRINDER PLANT

DAY:	7.00	Grinding with #1, #2 and #3 grinders	18
	7.18	No steam	14
	7.32	Grinding	127
	7.39	No steam	9
	7.48	Grinding	24
	10.12	No steam	15
	10.27	Grinding	100
	12.07	No steam	33
	12.40	Grinding	46
	1.26	No steam	13
	1.39	Grinding	166
	4.25	No steam	15
	4.40	Grinding	3
	4.43	Shut down; fuse blew on conveyor #131; due to heavy load; waiting for electricians to put fuse in	17
	5.00	Grinding	10

2374 Bbls
2769 "

Mill Log...5. 11/24/05.

CLINKER FINE GRINDER

<u>Time</u>				<u>Run</u>	<u>Loss</u>	<u>Folio</u>
5.10	Shut down for day			494	116	
	Running	494"	80.98%			
	Loss	116"	19.02%			
		610"	100.00%			

Indicator reading:

7.00 A.M. 38801 894 bbls., average 109 bbls. per hour.
 6.10 P.M. 38938
 Air pressure 100 lbs. on #1 and #3 grinders.
 80 " on #2 grinder.
 Clinker weight 108 lbs. per revolution.

Steam low from:

7.00 to 7.18
 7.40 to 8.00
 9.00 to 9.48
 10.05 to 10.27
 10.45 to 11.13
 11.50 to 12.40
 1.00 to 1.26
 3.13 to 3.33

NIGHT:

6.00	Waiting for belt man to take up drive belt of #1 grinder		
6.52	Started up	52	2
6.54	Shut down; fuse blew on motor of conveyor #131 - belt overloaded	41	
7.35	Grinding with #1 and #3 grinders (Repair men taking off stuffing boxes and cleaning oil holes out at #2 grinder)	483	38
3.38	Shut down to couple up #2 grinder		
4.16	Grinding with #1, #2 and #3 grinders	104	
6.00	Shut down for night	557	133
	Running	567"	81.63%
	Loss	133"	18.47%
		720"	100.00%

Indicator reading:

6.00 P.M. 38938 1241 bbls., average 127 bbls. per hour.
 6.00 A.M. 43258
 Clinker weight 109 lbs. per revolution.
 Air pressure 100 lbs.
 Cement on hand - 19,191 bbls.

--oOo--

PACKING PLANT

7.00	Packing; put incoars	105	
8.45	Digging out conveyor #145	60	
9.45	Packing	45	15
10.30	4 Gudgeons sheared on conveyor #145	75	
10.45	Packing		
12.00	Lunch		
12.20	Packing	190	30
3.30	Waiting for cars	150	
4.00	Packing		
6.30	Shut down for day	565	105
	Running	565"	84.33%
	Loss	105"	15.67%
		670"	100.00%

Packed 63671 bbls.
 Loaded from Storage 410 bbls.

2135 Bbls

[ON BACK OF PRECEDING PAGE]

Mallory

I see you are trouble with
want of steam, I will get you
take Bull by horns get

all up to date
this to the people
to do + always result
in finding out
of steam
But wrong

**EDISON PORTLAND CEMENT COMPANY RECORDS
PLANT OPERATIONS - NOTEBOOKS**

**Edison Portland Cement Company Records
Plant Operations Notebook, N-99-04-04**

This notebook covers the period April-October 1899. It was used by Edison's legal counsel, Alexander Elliot, Jr., for notes, opinions, and drawings relating to cement properties at Stewartville and several locations in Pennsylvania. The earliest items mention meetings with Edison. One entry describes the Hercules Portland Cement Co. in Allentown, Pennsylvania. The front cover is labeled "From the Laboratory of Thomas A. Edison," "The Edison Portland Cement Co.," and "Alexander Elliot, Jr., Edison Laboratory, Orange, N.J." The book contains 151 numbered pages, some of which are blank, followed by 7 unnumbered pages. Related material can be found in the Alexander Elliott, Jr., Papers and in the New Jersey and Pennsylvania Concentrating Works Records (*Thomas A. Edison Papers: A Selective Microfilm Edition, Part III*).

for 59 to 65 of book of lines
19 to 23. Selection of lines
4 or 5. Commenced
5 - Magnesia

Book of

Lines of Lines
Provinces of Province and
gas -

Commenced my duties
with Edison Portland
Cement Co. April 4, 1899
by preparing a book for
use in obtaining samples
for Portland Cement
from the Edison Portland
Cement Co. for the purpose of
determining the quality of
the cement.

April 4, 1899

Prepared action for
Securing Census prohibitions
in respect of Northern
and Southern States
for his approval &
suggestions

Bluffton
April 7, 1899

M. Catasauqua Pa
Wrote A. N. Ulrich
about his opinions
etc.

April 9th 1899

3

M. Hazen to see
Brisbane from
noon to 5 p.m.
Same day - get
information re
this house to Orange
during 10 p.m.

Mar. April 12 - 1899

[illegible]

Get Dad note book
like this

New April 18. 1899 -
 Eagon to May - need
 Pembroke - track over
 August - tracks - more
 to into range - as
 per telegram - see March
 1899 - with
 the same - see
 at office March 1899
 copy to his record of
 fossils on which
 for full description and
 Pembroke - see
 1894 & 1895 - George West
 to get telegram March
 Pembroke -

April 14th + N^o 10 Over
Josephs Wick Browne

Haystack, Pa. April 13/99

in air

Wagon Road - 1 mi. N of Hay

on road Peckham -

Gave permission to Francis

to go off on it.

Frank Reed. out at home

John - at home & in air

John Reed - Chapter Box

Officer - whole species Out/99

Copy of option

copying Book.

Catsburg April 13/99 in air

Wagon Road - 1 mi. N of Hay

on road Peckham -

Gave permission to Francis

to go off on it.

Frank Reed. out at home

John - at home & in air

John Reed - Chapter Box

Officer - whole species Out/99

Copy of option

copying Book.

Mr. Bruns. gave option to

Stanger. whole species Out/99

copy of Book. in air

about 18/99. also said

the papers had been signed

twice. both ways. Charles

people.

Colasangua Pa

April 1899
Saw a hawk, buzzard, a
Screech Owl and 1304 1305
6300 - 2000, all cold
To hear from him at
the Washington Hotel -
C. & F. R. R. 1306
and 1307. Not much
any. They depend on
M. W. H. Union with technology

C. & F. R. R.

Chapman. Sept

1304 F. R. R. mile 20
with gear + show 700
profit.

Monday night 2

Red Bull & H.

135 - attract on a midgus form
135 a - back from

Stay - April 14th 1899 ¹¹

Jacob Russ - 1/2 mi W of May
76 - 2000 - 1000 up -
Julius Ann Russ

Jacob Russ
gave up to Shaker at 2000 ft a
mount 2000. Shaf gave
other more - all work -
Sally in wife - the work
sign work - Ophelia Expires
April 1900 - They would
not give up to us - though
they thought Jacob was
10 11 12

Brianne came
up here - with ask to day

Christine Springs

April 14/99

Ruben Edelman - 2000 - 1000
before came up any thing
will come with us to

Ruben Ruff - not at home
at home in very much
Stephen Ruff - will do it

May 19

May 19

May 19

May 19

May 19

May 19

May 19

May 19

May 19

May 19

May 19

May 19

May - April 18th 1899.

17

On line with May 19th

① John Smith - not at home

② G. H. Stem - at home E of May
mile south of May
at 3:00 PM per 10.00
for 10.00 - 10.00

③ Joe Shively - near Shakerham
not at home - about 10.00
his father is just better than to him

④ Mable Bonstein -
not home at home or dead
in his house

⑤ David Stach - 70 y old -
permitted to work dead or see
points to find his last day in
June

Continued April 15th - Continued

(6) J. S. Messenger 2 1/2 mi
East of Hager
from the Forks Church.
11.5 ft. deep. This corner
no opinion on ledge as it
may prove to be a
bit of the same.
No fossils.

(7) Alton - 10 mi. from
the house - 10 mi.

(8) Kneels - 10 mi. from Alton -
10 mi. from Hager - could not
see any fossils.

(9) These were the messengers
found about 10 mi. ago to come
the near Newark.

19

April 17/49 -

Horner says all the Ceyneth plants
in S.V. + N.Y. excepting those
optional to form a Ceyneth.

Alton going to show another
plant near the present
plant.

Darknessville, Kent in N.Y.
and 2 mi. ago for 10 mi.
no more - I could not say
who to.

Below dark - think to miss in
gray also some in N.Y. state
in some for himself

See Horner after April 23/49

(received April 13, 1899, P. Koch)

Copy of Chapter caption -
obtained from P. Koch
for my paperable in form of
a letter.)

Dated Sept. 30 - 1899

In consideration of one dollar
I agree to sell you my farm
lot 13,000 (52 acres) and give you
right to take away 200 bush of
wheat from out of any place at
any time at \$4 per ton freight &
it is available from 1899 to
April 1, 1899 - and balanced on or
before Oct. 1, 1899 - if done with
available this agreement null &
void on April 1 - 1899.

(sig)

In witness
whereof

Peter A. Koch
Wm. B. Chapin

March 27 - 1899

I hereby agree to attend the
first business by Oct. 1 - 1899
and the balance to April 1, 1900.

In witness
whereof

(sig) Peter A. Koch
Jacob H. Koch

Boyer, Supt. Hercules

Near Longfords - White Horse -
What about grapes miss
y or aphon - let us say 1899

Supt. of Mill - last September
knows about same have the
#C -

Cataguanico. April 15/99
Hemlock Co.

Went on 3rd of 13 acres
for 1899. For
acres 45000 under station
of power. Jan 99 - ~~45000~~
advised 13.000 track
of 70-a track count +
level.

Price of lease is a barrel
royalty. Minimum royalty 15.00
7.00 - 1.00

Other party 70-acres -

Boothwick is under lease 200-
475 1879. at 4 per barrel - One
57 acres Hemlock holds option
on the 13 a + 1/2 a track where
at 70.000.

Call Mack 75000. for 1899 -
Mack on Hill + lease hold 56.250.
5% of 1000 10 years -

majority of stock held by 4 shares -
2 dead - only 2 shares in hands
of Mack held by a Mr. Murdoch of NY.

23
Continued for April 19-1899
The 4th (last run by Roman)
2 of the 4th can't go on for good
either. I don't want to
find funds want to raise
them on payments - mainly is
because they are very much
location - R.R. water - the only
property left on L.V.R.R.

75.000. or par for Capital
mgs - Can get the people together
in 24 hours. It will any offer.

April 19-1899.

Made farm on Iron Rd.
Abt. 63 acres - ~~60%~~ 60% Cortina

Buy farm abt 70 - acre
65% of cost of land - near
N. H. A. must crop 4 farms
to get to see from 5 cross
River

Killed farm on Iron Rd.
Ours Porter. Price \$1000.
35,000 - 125 acres

25

Cuba April 19-1899,

Made farm on Santa C. Y. Y.
95 - acres - 15,700,

Price April 14/99

Exp Sept 1/99 -

With price of exploring -

Pen. Diggle. April 20/99.

Dr C. A. Brown -
185 acres - 35,000.

Is estimate at Hays Co. Division
Growth of the Red Oak, Asp -

P.R.P. 1/2 of one of it + P.R.P.

Area ~~on~~ of one side

65. Cont. of line 1, portion of

same 20.

4 acres flat near R.R.

40 acres of land, General road

50 to 100 acres - bal.

frome land immediately

General + black forest

1/4 for Oak River

Line above land on same

same

Offer now on it ~~200~~ of

30,000 to one of the of same

in C. 22 and one of the

to one of the

27
Cont. for April 20/99.

Oaks. ~~in~~ the present

here ~~has~~ 2000. now

a ~~large~~ in Hays Co. Reg.

Crane's ~~palace~~ in Phila

20. 100.

Crane & Co. must buy outright

on 20. in past years Oaks

has 15 acres from 20. in

when in market of not 100. in

(for) will undertake to sell with

me -

35,000.

Chas. A. Wells. M.E. -

President, Reading

Phila. V.

Does up when I see Hotel

on telephone.

Stewardsville April 21, 1899.

Mrs Cabot came from Seattle
 100 - a. 1 mi E of S.B. - on 1st St W
 Jan of ab 1890 for a - at Green
 some time ago. (Kaden enjoyed)
 P. Smith - she has 2nd wife off
 150.00 She refused - asked 200.00
 Smith wanted some to think it over -
 I came to 200.00 then later for
 125.00 for a one condition
 She took first choice x.c. y.c.
 She took it over with family -
 me to care again. 25.00 back to
 January 22 (23 Sunday) 24 - another
 1 month -

of 1 yr - we to pay all
damages - can appear & demand
drill - show ideas they will cut
one down to 9 mi - flat land.

Pole. Stone ^{cut by Carlsbad}
growing Cabinet - across 15 ft - gues.
Cabinet - ght 100 - ft
Cabinet - wants to measure abt 25'
w 30' - across. where mucky ground
but we can locate marked position
of the end of James on road

Continued from April 28/99
price 150 to 175 - for a Cabals
David to be kept. all feed gave
dore most quiet, and over R.R.
but over Cabals.

all towns of ap as I
mark them. I think.

Tuesday. Arrived near them
 Sunday. Arrived at + Monday
 Sunday. Arrived at + Monday
 Sunday. Arrived at + Monday

② Example Fry - 1 min E of S.V.
1 min for WC + W = adjoining Fry

① Crown Overlay = $\frac{1}{2}$ E of S.O.
1 mi. for R.R. 1 mi.

③ J.R. Hyndshaw - adj.
 Oerle -

(24) John Fritz - adj. in Carlsbad
an artist in Carlsbad ~~from~~
77. I saw him thru his fan

Eastern April 21/99

Birds and reports -

I have pretty he Exam-
to day - sampled for over
one hour

(1) B. quercus. seemed in ac-
quiescence. available. 1000
by Thomas who brought
the only one of this
that I saw. very scarce

(2) B. quercus. found several
which were small. large
to small as well as 4 rows

We later sped back to
Pala. 4 miles - can't find out
info. Brown & Hopper
Baker no room to hunt
on more to be any P.R.

* 2 losses as first above.

Birds tomorrow (22) taking
this road & then to the 22nd about 10 miles

31
Eastern April 21/99 - Cont'd

maple -

Chas. A. MacGowan. White-throated
bird in lawn - at foot of
of White-throated maple - at 100 yds
of New York of School. Not that
Common. No. 1000 of eggs at
Omaha - watching. (Kane)

Stuartville April 21/99

Bargained with Mrs. Samson
Cash 220. per acre = 103.00

Bargained with Robt. Stone
at 150.00 per acre = 157.00

Sabersangue April 22/99

Op. Stomach mch. case
W. Mch. preparation with
Nor Chapman & Mch. case

Stomach mch. prep. 95. ans
(Mch. case) Mch. case has op.
which expires Sept 1/99. 150.
per a. which would turn
over to us any time.

Much grief before results
of Mch. are developed

Philipsburg April 22/99

To see Stomach mch. prep.
from Mch. case. Mch. case
case of Mch. case. Mch. case

Odunwaletown April 25/99

H. B. Reservoir. 1000 gal. of water
left more more. 1000 gal. of water
April 25/99

Philipsburg. 1000 gal. of water
left more more. 1000 gal. of water
April 25/99

Stewartville April 25/99

Burgine with Cohart at 225.
Cohart at 225. Cohart at 225.
Cohart at 225. Cohart at 225.
Cohart at 225. Cohart at 225.

Stomach mch. prep. 95. ans
(Mch. case) Mch. case has op.
which expires Sept 1/99. 150.
per a. which would turn
over to us any time.

Washington April 26/99

Closed with Samanthia Clark
this day at Washington co
foreman -

103 acres at 22.25⁰⁰ per acre

Apr 6 m. fr May 1/99 -

Land but on to Mr E R.R.

6 mi E of Phary - 1 mi E of

Stewartsville -

It was found to Samanthia

Clark 100⁰⁰ for filing foreman

Johnston County on bond

Mr Edson letter to J. E.

My telegram to Mr Edson

Washington April 26/99

When Mrs Calabaz at

to camp office she back

unt - the back are night re

Sao Corina ult bond re

also Mrs. Edson

about 100000 lbs mostly

avg - 100000 lbs mostly

avg - 100000 lbs mostly

avg - 100000 lbs mostly

avg - 100000 lbs mostly

avg - 100000 lbs mostly

avg - 100000 lbs mostly

avg - 100000 lbs mostly

Washington April 27/99

Option

Closed with Samanthia

Clark this day at Jefferys

Office Washington

103 acres at 22.25⁰⁰ per acre

Apr 6 m. fr May 1/99. Ex pers

Nov 1/99

Land but on to Mr E R.R.

6 mi E of Phary - 1 mi

E of Stewartsville -

Regelow 100000 lbs

contains both bones stored &

Camp rock

It was found to Samanthia

Clark 100⁰⁰ for filing foreman

Johnston County on bond

Mr Edson letter to J. E.

My telegram to Mr Edson

Washington April 27/99

When Mrs Calabaz at

to camp office she back

unt - the back are night re

Sao Corina ult bond re

also Mrs. Edson

about 100000 lbs mostly

avg - 100000 lbs mostly

avg - 100000 lbs mostly

avg - 100000 lbs mostly

Acintown - April 27 - 1899.

Hercules Portland Cement Co.
plants & holdings as follows:

13- acres - on which plant stands
under lease for 100- yrs fr 1879-
Royalty 4 cents per barrel min 1200.⁰⁰
57 acres North of & adjoining 13
acre tract -

Options on 57.413 acres \$70,000.
Expires in June - 1999.

Plant 4 120 ft breast of Current rock
on 13 - core track

Options could be extended by purchase would require not least a fixed N.E. of adjoining 13 acre tract for larger parcel. Can easily be achieved.

Swine Stone is half off road
Rt. 130 about 5 miles - Cement road on
Rt. 130 a nearly chemically correct very
little lime. More required 12 to 25%
lime for Sabash quarry, 5 mi
above Aspley - turned into quarry
located much by Clinton Rd. (V.D.C.)

Mercurius Co. April 27 - 199 - Cont^d

No lease on lime stone quarry only
year contract - Wards pay 37¢
per ton i.e. Quarry + 38¢ per ton
I reach i.e. Stone costs 48¢ per ton
at mill - 12 to 15% lime stone fair estimate

Part of Cement rock used in 20 hours 120 Bob.
" " " " 120c. Tons
" " " " 200

Out put from above quantiles
make 350 lbs in 20 hrs.

Now getting for high grade Portland 1.68 per barrel
Low " " " 1.50 " "

f. o. b. Works.
70 acres at future land worth
fr 150 to 175 per a.

Capitalized at \$45,000.⁷³
(1500 shares @ \$30.00 per share) (Pa Corp)

Intgs on Mill & leave holder #56 2.50.⁰⁰
 5% - leave N.Y. & yrs yet to run
 Dr. B. - Could probably cut up 10 or 15 cows on
 grounds is even if worked right
 pitho.

Hiram Co. April 27/99 - Cont.

Capt. stock	75.00.
Mfgs	56.250
Option	40.000
	$\$ 201.250$

All above could be sent
 down. Stock considerable
 Mfgs " "
 Option " "

S. V. R. R. Station White Hall.
 P.O. address Catarangua
 Telegraph " "

Edmund D. Boyer -
 P.O. Catarangua Co.

Location walked on track line
 Hiram Co. water (Chapt line)
 Camp built in sight for 60 yds
 with front of 120 ft above water
 level - 120 ft now being worked

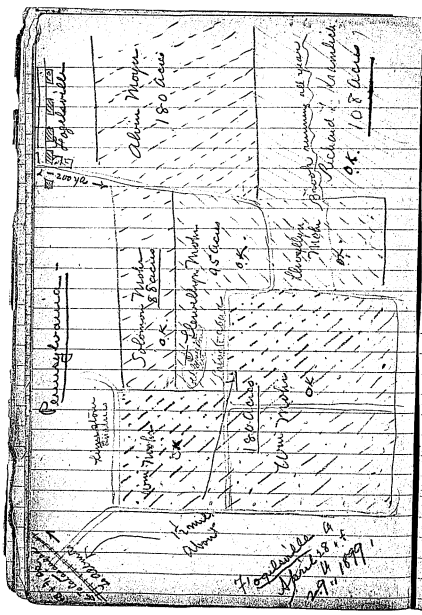
Fogelsville's April 28/99

Close to ^{the} Rich. L. Krausich +
 Lizzie J. Krausich - widows & owned
 1/2 mile by mill after husband.
 100 acres at 150.00 per acre -
 6 mi from Muncy
 1/99 - Exp Nov 1/99.
 40 - Same to vacate discharge
 1 mi N of Fogelsville

This closed today as on
 Holston Mohr. 88. Acres
 at 150.00 per a. - 6 mi. fr
 May 1/99 - 10. Exp Nov 1/99.

Both above in Upper Muncy
 Exp - Sept 3 - Pa

Sol Mohr - 100 yds S. L. Mohr
 on the South - built on to edge
 of village on the East.



April 27 - 1899 - 41

Orange Wharf

Samanta Chakr

Native ...

Jessie Lutz - Estate - 1895 - for
 Cash bline, Eⁿ 1. yr -
 Stinsonville Ky. 1500 - 5%

10. $E_2 = 1.27 \text{ eV}$

Stimulant value 2. 1500-5%

Firm clay, at Hog Island P.

April 29 - 1899

Kranich Nov. 29 - 1899
Nov. 29 - 1899
Kranich Nov. 29 - 1899

10 - 2/50 for 1898. Royalty 20¢
per ton 3/4 mi from C & T. R.R.

5/2/99 - Mr E says analysis is good
I to see what I can do about it

5/2/99 - Mr E says analysis is good
I to see what Deane do about it

to see what Dean do about it

Bath - Pa. April 14/99

Gravex farm Road 50 a 20.000

Stomach 2 1/2 mi. 9 a.m. = 14.5" cor.
75 " 22.00"

Nearly all rock - lime + Concretions
Of calc. & iron -

Fogelstein - Pa -

Sloughlyn Mohr April 28 + 29 / 99
95-2

Mr. Mohr 1/50 - a

Alvin Meyer - 150 - a

Kramlich (Rich S. Indiana) 1108 - 95

Salomon Mohr 188 -

Adams Co. Pa. April 28/99

Frederickburg - York County
 abt 6 mi. North of Philadelphia
 Known as "Remembrance Farm"
 recently sold by Sherry (Sister)
 400+ acres - abt 8 mi.
 S.E. of Reading on the Pike
 good Cement + Limestone
 sold Burdette to Anne the
 above May 5th 1999 -

See Bigelows report
Ending April 29, 1899 - also
map following pages -

Thursday.
Sturteville Ky. May 4. 1899

John W. Glue = 45 acres
cross track - (Should include
track) 250. per acre - would
prefer to deal with one than
with other party - (Ripley)

Strif: New thing to him - don't
believe he has ever seen one of
New granite desc. - went let us get
just a few in what he said. thought we were very large
at Stone - James will seek to find
only wants quantities that would
pay a few cents - wants 160 or
180 per acre - said to be good
Cement & lime -

Own Plots. Farm 123-a - abt 60 a
Cement - abt 20 acres of lime stone
adjoining Cement. some places crops not
over 1000 - abt 5 ft. no decomposed
rock on top
Think it will be 1-1.5 ft deep. no water
seen down another place 75 ft or 100 ft
Water which was within 10 ft of top.

Thursday.
Sturteville May 4. 1899
drunk mill for mixed flour (used)
Sturteville mill - got no drink -
all cement rock.
Over man came 90 15 ft
in two miles + got samples -
Miles 100 ft apart -
1/2 mi S of M. R. R. - narrow
Canal

On N by Hinchey
E " Chas. Church
S " Holly Glue
W " James Fry
1 1/2 E of Vancanto + find place of
crops out -
Vancanto people uncover
5 ft - some places it crops out -
5 ft - good lime - clay on top -
#200.00 per a. a. + 1/2 mile S. or S. or S.

James Fry N. of + adjoining Glue
143 acres - abt 100 a. cement + lime
1 mi S of M. R. R. + 1 mi N. S. of C. R. R. +
2 1/2 mi E. + 1 mi due E of Vancanto.
90 acres or 100 a. a. = 1000 a.
or 1 whole farm of 143 a. + 175 a.
of Glue + more by same owner

Monday, May 1st 1899. From Bigelow's report.

Stewartville Warren Co. - n. f.
On line of m & s. rd. of S.C. - w. f.
6 mi East of Phillipsburg. n. f.

Map on next page following shows
ground owned by Pipeline during week
ending April 29, 1979 -

Mo^o 1-2-3-4-5-6-7. All ready covered
by others.

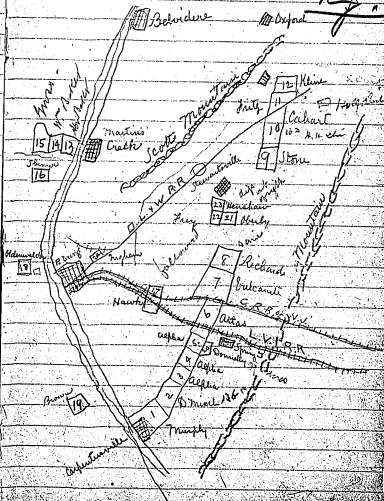
Co. 8. H.B. Richards farm. Richards lives
at Odumwilderkowen. It contains 150 G
200. above adjacent Volcanite probably on North
has large deposit of basalt rock & near
C.R.R. and. Richards high priced &
have to do with

Nag Rock Stone - I bargained with him
 at 150. per. a. - 6 mos. 900 to pay
 damages - he bawled out. will get
 him later. has 110 - acres - abundance
 of Corn & a big stone - on N + E R.R.
 6 mi. E of P. burg. - 1/4 E. of P. P.
 very desirable prop.

See page following maps

Monday

Monday Bismarck parking by Bismarck
Earl, Pa. May 1st 1999



Sturdeville of May 1-199. Contnd

May 10.

Bennett Cabark 100 - a. - good

profit Annual & time shown -
closed April 27/99 - 225 - per a.

Normal explanation - 52 yd from building
6 mi. p. May 1. 5/199. 1/99.

Mr. Jay damages to - gave bond in 100.
ough damages see. 1/99.

11. Stewart Lutz: adjoins Cabark

farm - abundant pasture but

best building site - off a. May

11th. 100. per a. - 6 mi. p. 1/99.

Miss thought it over. Any. Chas. you say.

12. J. W. Clinic - 110 - a. - acres of

farm. across brook - good stone

good building site

11 + 12. Plenty of water from

brook. want 225 - 200 - 1 off a

100. 1 - 4 or 5 p. 1/99. wants to

see one again (May 11)

13. Mr. Baker. tract at Martins Creek

225 to 300 - a. 1 acre stone - 200

building site. 1/99. 1/99.

May 1-199 - Contnd Bigelow

Right hand side 27/99

1015 - Dr. B. L. Gross - 55 acres

adjoins Butler tract - large body

of stone - Can be reached

unless by first taking right turn

across Bunnell or Baker - wanted.

have to travel over R.P. R.R. + Bel.

Dr. Dir. N.P. R.R. not a desirable

property

11. 16. Shiner - tract - S of 14 + 15 -

all 20 acres - all stone

no place to build mill because

of abruptness of the formation

12. 17. Hawk farm - on edge of

inside town limits of 1/99. E -

2. R.R. + C. R.R. run thro. this

tract - Have seen Hawk

birds (4) + 2. 1/99. They don't

want to give option - want to see

outright - 107 acres -

1/99. + lime stone on bar

large spring -

19. Roll Brown on 1/99.

May 14/99. Chulucane
 At river S.E. of Carlson further up river
 from Conquistadorville
 (top of the hill from 200 to 400 ft. of barbed
 rock (volcanic) covered bank to be worked
 as a mine - no R.R. on Peru side of
 the river.

22 David Donnelly - 40 acres - adjacent
 Alpha property on bank - near to L.V.R.R.

23. Blake farm - 1/2 mi S. of Abundancia
 5 mi S. of R.R. - alt 1 mi S. of
 M. & R.R. have cross narrow gauge
 abundance of stone -

24. Frey - adjacent Obispo - not so much.

23. Hunsbaker - adjacent Frey - alt
 1/2 mi S. of R.R.

24. Englemann tract - 10 acres - just
 west side of highway from Lima on
 M. & R.R.

51
 Alluvium on May 4/99 -

Washington mine re Jefferson St. &
 North Washington Alluvium - 7 mi
 Barabunt - 1400 ft. at Negreville
 Drunken R.R. 1 1/2 mi off - 5 mi N.
 Monte was for a block of stone -
 found 1000 yds. here later - 500 ft. off &
 12 5' 2" then 150' - too far apart
 Reckitt liked this & encircled the
 rock -

Analysis of samples taken from above Alluvium profile			
(Crane's data)	Sample No. 1	Sample No. 2	Sample No. 3
Calcium	11.650	11.100	19.660
Carbonate of Iron			
Phosphorus	5.060	6.000	5.260
Alumina			
Carbonate of lime	80.675	80.856	72.785
Magnesia	2.270	2.346	2.370
Iron	45.190	45.000	40.800
Magnesia	1.081	1.117	1.081

Abundancia of good water (thermal)
 line stone on adjacent property.

May 5th 1899.

at 7 - took train Allentown 11th
option on property at Bryn Mawr.

at 11th - returned at 11th -

at 13th - from 11th to 13th 1899 -

at 13th - from 11th to 13th 1899 -

On C. & P. R. 1st 1899

for 1st 1899

Fogelsville - May 5th 1899.

Albin Meyer - not yet heard from
other birds - looks favorable - 17th 1899
per a - 150 - a - adjuv. Solomon
Meyer - only males & females of 1899

Chapman assigned Wm & Lulu
Meyer as of April 29 1899
for he has later signed 1st 1899
proceeding me in winter 1899
of any

Wm Meyer told
Chapman for July 1899 - & have asked
Barnum not to leave Wm
then soon as he has back to
Coke (Wm) Baker is with

53
Eaton. Pa. May 5th 1899.

Bislow report for May 1st 1899 - 4
+ 5th 1899

Monday May 2/99 -
Kennedy - owned by Sh. D. D. (C.)
about 2 1/2 mi for Caplan Sta (C. V. R.)
on Danton R.R. + 6-a + 6-a
Don't think any time on 10-a
6-a took good line stone now
worked under 10 yr lease from
Kennedy heirs - (2 daughters, married)
adjuv. now Schlegel Cement Co - by
lessee David Neubarth -

Monday May 1/99 -
Bislow - 1800

Tuesday May 3/99 -
Shanghai Steel Valley, N.Y. -
1 1/2 M.E. of Philadelphia - 20 on
toward New Village - nothing

Wednesday May 4th 1899
Thursday May 4th 1899
from Martins Creek to Stockton - also likely
high on mountain of state. Sh. D. D. (C.)
Bislow (Barnum) (Barnum) to 1st 1899

Easton Pa - May 5, 1899.
 Bigelow Hawks on Columbus Road
 West of Easton 1 mi. + well
 north of mts. Nazareth or at
 about 7 mi. well interest
 Perisperm rock where base
 of rock great East + West of
 Naz - Big deposit excellent
 ground to be a rock at Columbus
 but is laid out in building lots
 + many sold off it is part of Easton
 calcareous limestone.

Hogelsville May 6, 1899
 Moyer mill deal first 2
 mts. rock - Had little fruit
 Fisher - wants to put off hill
 mts. rock.

Arranged to have Britton
 go Reading mts. rock again
 leave off -

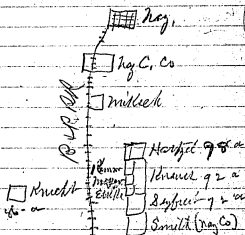
Easton May 8th 1899.
Bigelow Report.

Saturday May 6/99
 Started Columbus to Nazareth
 drive first through Bethlehem
 Bethlehem Naz. Bethlehem Naz. Bethlehem
 + 1 1/2 mi. N. of Schuylkill River + 1/2 mi. N. of
 found nothing. After leaving
 Johnstown. Sign elegant at O -
 but only a pocket of 50 lbs a
 bush now limits up partly.

Monday May 8/99 -
 today possible around + between
 Naz. + Schuylkill + Schuylkill
 (all a sign of rock)
 (1) John Schuylkill 98 a 1 mi E of Naz
 on B. & P. R. line + summit -
 (2) John Schuylkill 20 - a
 (3) John Schuylkill 5 - a
 (4) John Schuylkill 6 - a
 (5) John Schuylkill 92 - a
 (6) John Schuylkill 72 - a
 all above all from Schuylkill
 now owned by Naz. Summit Road
 (7) John Schuylkill 86 - a
 due north of Schuylkill

Even May 8th Cont'd.
200 yds for 1811 RR.

(3) Milled on E edge of May -



See previous page.

Stewartville N.J. May 9, 1899

Closed John W. Laine's options on 110-a. acres - \$200. for a fur entire or any portion of farm - 9. m. from May 11/99 -

Closed Aganide Tracy's options - 75.5⁺ for acre of 142.5 a. reserving 6 acre or 200. for a fur as ordinary acres as over close to take. Option to run 6 m. from May 15/99 -

Obade-mash at home - Will close at 200. for a -

Tracy - less off -

Shore 150 to 175.00 more willing to close now - former willing to

At Odessa - less than 100.00 again - to west of home -

May 10th 1899

Continued hunt over Kinnear

Old track 50 - 2

1 " 155 - 2

7 mi South of Fleischmann
+ 8 mi S of Berding on Pike

Plenty of living snake

It is there up in the vegetation
and one can climb or jump
off from onto a track in
middle of pine woods

180 ft track with tail

Left with

no R.R. about 7 mi
Can't build a road with out
great cost. Oregon chain
of mountains to Fleischmann
on P.R. R.R.

Rabbits saw Kinnear
one of two brothers -

(At Altimier's currency
Pa. Dealer -)

May 10th 1899

57

Rabbits going to Fleischmann
from 11 mi S of
Schraders point close to C & F
R.R. This point is about
4 mi S of Fleischmann

Rabbits say Kinnear will
visit the Friday night on
Friday.

Stewartville, Md.
May 11. 1897.

Early - had such thoughts, at
 and much - wife thinks
 about it &c -

Bigelow says such much
 on this property. I thought
 best to get it in course of
 clearing to other &c -

Oberts, not at home again.
 must be with Dr. King
 to avoid me - I followed him
 to P. box. He still held out
 for different terms of payment
 than proposed from 2.00
 per a. of ground owned upon plot
 to 250 ft per a. - I said we
 would not give it -

Home, not at home.

Richards - wants to think out
 my proposition of 2.25 per a. 6 mi.
 of land - went to Sulcauth - 120 - and
 Bigelow says good profit. I can

Abright - Morgan -
 May 11. tomorrow
 Seckelwald,

Morgan in D. R.
 adjoining Abright's.
 Strachy - Monday
 Sat. towards Breynelle

Attracted to this
 at May - May 12/97
 Secours -
 Reuben
 manager
 I order - May 12.
 St. Thos.
 is Reuben - books
 Jacoby - Breynelle
 ship to Chapin
 for hands - to Cray
 ship by express to Chapin

Stewartville May 13-1890

I closed this day at Stewartville
Stone about 175. ⁰⁰/₁₀₀ per a
After time made 1574 - a
from May 1988

Salmon H. H. *Salmon options*
150.00 per acre - 116 - a
Nov. May 1/99.

Telegraphed Mr. E. from D. T.
to have Cunningham stop
application of Wells and Burdett
line. P. M.

Also Telegrams sent President
Tennant and J. P. M. at U. S. Hotel
New York. He started Monday
morning. His floor plan is in progress.
Cochran

Cochran

44

Dr. Cline

H. 17: 6 Lines. End next to Townsh

They are husband or wife & some
other. Others who require 2nd
per. are -

James Duvall May 14/99 on
7.30 a.m. train from P. Lurg

Kennedy farm (J.P. Dwyer) - Cu-
taining 2 tracts - 40.2 - 40.2 -
adjoining Schipe Portland Cement Co
tract (3 mi from Coplay Station on
S. & P.R.R.) on North side of river
R.R. - nearly all cement rock
on the 40.2 acre tract -

The 4-acre tract on South side
of Doubtful R.R. is nearly all
lime rock.

2 ridges - on North Ramp to
the General & South Lincolnton

The 4 a tract is now being
upped up for time shown & is
showing up good

Phinney

May 15. 1899

038. Stone 9m² for 2m² 1. 154³³-1a 175⁰⁰ a

(2) H. H. Glinea " " - 116

(3) Fire 6 m/s. at May 15. 137-

(4) Mr. Police and (Mrs. 1-100)

☺ Cohort 6 mgs: for May 10

12. Wm. Maher 180 619.

gas meter 88 4.7
Sewer 86

Krant. 168

Marataway May 19-1899.

Cloud, this morn. Sarah Morgan
(Thos R. Morgan) - P.O. Morgan
Celine on 67 - (Elizabeth) 1780
Went to Brandon 11
3-12-99 of 11-11-99
Mrs Morgan 450 ft & 1000 ft
alt 9 miles on white building
off 6 miles from Brandon
19/99 - Celine Nov 19/99
Went says good Celine
line road - alt 17 mi of 8 of
Brandon -

Robt Morgan adjoins above
on Road - Celine 43.00
around Robt line - Robt did
alt 17 - ago - not yet settled
to Lewis - see 9th Robt. 14 mi 1/2
Schneckmiller on Brandon Rd
Squire house - keeps 1000 ft. Schneckmiller
only 14 mi of the 70 - a C + line -

Get maps out of Schneck

Marataway May 19-1899

Franklin D. Morgan property
11-a. - same adjoining Robt Morgan
on South street - on 12 - by
James M. Morgan - alt 1000 ft
high for R.R. as Morgan -
Celine + line road
alt 1000 ft 3 mi W of Cypht.

Albright tract - 135 - a
Parker said not enough Celine +
line road - alt 1000 ft. 1/2 mi
17.5.2 per a. -

17.5.2 per a. alt right
take only what we need -
alt 1000 ft. above line to be
get creek - this is the
line between Morgan + Albright
adjoins John Morgan on 1000 ft
+ John's line between 1000 ft
Albright.

Wiley Bear - adjoins John Albright
alt 1000 ft - no comment on
line - last by mile line

Stuartsville, May 22-1897.

Mr. Cabot came home with
Bigelow - 4 holes down (Crown)
in bottom line rock cropping out
on Capers.
Bigelow satisfied blue
+ fairly good cement rock - &
quite a Cabot of red good
cement.

Easton May 23-1897

Proctor's Bayou & allusion to
land out (about)
256⁰⁰ per acre - 6 mds.
Bigelow says no line on it
but much dirt - but
fairly good - R - must
I carried copy of analyses of
mr. don't take it.
I must give bond &c
for the R. with rock at
the house - it is on CRK of
N.Y.

Bill Bell

71
Seipfride May 24-1897.

Mayor was to go to
fairly money to today - Diller
to see the fair in Sta.
Representative. Pica paper with bank

Our Sch. & Sabach farms with
Bridgman today (E. J. Rieder
Verick) 6 mds. in
Sch. from 7th - 10th - 24⁰⁰
22. a. owned by the Sch. by
Sch. 22. a. owned by the Sch. by

Calab 7th - 10th - 22. a. owned by the Sch. by
as agreed with Rieder - 253⁰⁰ per
See prospectus for Sch.

Jann - 2. a. owned by the Sch. by
for Riddleman - now - Sch. - 253⁰⁰ per
(May 20)

must arrange with
Rieder for acc. to meet with
Sabach at Riddleman. any
day - no option to Rieder of
for any one else on Sch. of
Sabach farm
Sch. P. O. Northampton - Pa

Sigfried's Pa May 24/99

Garrett Farming China Store
Belleham Pa.
Farm 120 - acres
acres of 2.500 or 208.00 pr a.
Lyndham fr. Belleham or
Dr. Beth - on farm with
Labagh May 20/99 - also
on farm

Which has no options
on either ex. survey or title.

Rev J. O. Sidenbergs
Dunsmuir Land Co - Pa

Area 203 - a 1/4 mi S. of Spaulville
1/4 mi off C. & F. R.R. - Bob
Hunka this property good.

73
Nazareth Pa. May 25. 1899.

Solomon Shurtin R. Krauss
option - East of Nazareth
Tookay on 97 acres -
5 mi. from June 1st 1899 at
100.00 pr acre
Expires Nov 1 / 99

P. O. Nazareth
Northampton Co -
Pa.

Krauss - has options on
his 85 - acres to July 1st next
to Shaffer people from
Jan 1 last (1899)

Sigfried - 72 acres -
Own best clear, - among his
mother's life time - probably
entailed -

Heitzel's wife prob 99 - and
mel deal of her can arrange
with his father's must see him
prob. Call again next week

Carbon June 3/99

Delmont and Dr. Nathan R.R.
tied down him again,
Frank Stewart (Baltimore)
are go together

June 1/99

68. a. S.V.

Saturday Oct 1/99

Will 200 per a -

25

Stewartville June 14-1899

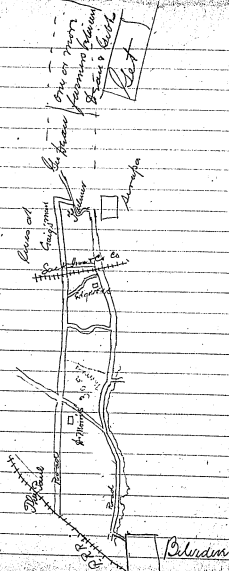
Geo Stewart Fritz - & bargained
for his 80-acre farm adjoining
Cahots - at 150 - per. a.

Conciding to him making
arrangements with his former
rulers leave expenses of the work -
also with

Geo Fritz - for his 80-acre
farm & his 100-acre farm at
150. per. a - He is passing
up on his Stewartville farm
but both will let him
know much more of the day

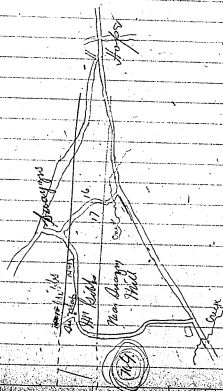
Orville is still loading
with & across with much to
see -

Ryrr
Ryrr



See Reading letter about
Sels + Sabine's father of June 12/98

27



Bulvadori June 15-1979

Paulo - Nascimento y c

④. As Morris - 300 - acres.
 New thing to him wants to travel
 the car, back - apprehensions.

③ Springdale farm - 6 km across -
owned by David Clark, Smulley
Indig. Co. Marshall Stacey and
Robt. 3 yrs. Johnston Alan Mubank
James David Wm. J. Rowell
no leave - can move any day

④ John H. Hildreth. 137. acre - some of

(5) Jean Edgar - 108 acres -

⑥ Sakkawanna C & F Co.
abt 20 - acrs.

June 15th 1890. Conf'd

(7) Craig Fager - alt. 5'8" to 6'0" - a -
owned by mem of this. Craig - died
on this Craig fr - Shon Kiefer -
Bentville - as to names of heirs +
Rob Crow - Blevins - Shon Kiefer
9 heirs been told. also, another -

③ Geo K. Fulmer - owner. No a
birds at Sarcophaga - but found 4
on S of road, transition from Grass
land or East of D. Low. Rd. &
East of Sack C & D Co tract -

⑦ Geo. Dean - all go. a - lives on
place ^{near him} also Mrs. R. Butts - farm
lives on before 89 yrs old - both these
are NE of Fairview -

~~10. J. P. Holden~~

11 - Int. Bayer - Belvedere

12. ^{Belvidere} Geo. Beyer - owned by ~~John~~ Anderson who
is former at Butterfield.

Monday June 16th 1899.

To see Senator Oscar Miller
above Riv. 203 - acres
Bargained at 137. = to 150. per
a. - Afternoon from one year -
Miller has Riv. & lot near
River at Easton. by letter in first
camp.

Superintendent Anderson school
house -

At Hazelville over night -

Hazelville Pa. June 17/99

To see following people in Government
to day with Harbison -

- | | | |
|---|--------------------------------------|-------------|
| ① | Rev. Seibensperger | 203 - acres |
| ② | Joe Smoyer | 50 - " |
| ③ | Edward Smoyer | 50 - " |
| ④ | John Smoyer | 40 - " |
| ⑤ | Geo. Hearn | 100 - " |
| ⑥ | Simon Kromer, ex. sec. Harbison | 80 - " |
| ⑦ | Samuel A. Butler - Atty. Harbison | 80 - " |
| ⑧ | James Smoyer - under at 16 | " |
| | Stannard (Mortg.) by 15/99 | 13 - " |
| ⑨ | Mrs. Geo. Smoyer - ex. sec. Harbison | 50 - " |

above Mrs. C. W. Smoyer &
Harbison - 100. per a.
17 - ds.

Schneider -

See Robert Newton
John Miller
Mayor

Donnelly farm 79 - acres
about cor 7 - acres cement
rock, no lime of some - Balance
farm for Whittaker mill -
(now Alpha) built on top of
Donnelly farm ~~Donnelly~~
Whittaker pit 35 acres &
mill mill on it abt 8 acres of
35 - cement rock - Alpha has
since lost the 2 farms adjoining
on the south. Donnelly farm
on left

There is but cor 7
acres of original Donnelly has
stone as above noted -
All the good cement rock is
south of Donnelly & has been
sawed by Alpha - Young farm &
Jacob Munk farm but by Alpha -
The David Munk farm & the
Murphy farm are ~~Capitol~~
has all been ~~been~~ secured
No Munk on Munk
Alpha - Young farm is on
South is Jacob Munk south

85
David Munk A of Jacob -
Murphy farm built David
Munk -

June 19 - 199 -

At Laboratory

June 20 - 199 -

At Stockholm - & Newfoundland
Surrounded Den - Munk &
(straight) leaves - at
Newfoundland surrounded
Munk leaves -

Stewartsville N.J. June 21/99

6 and Stewart Tittle option on
two 85-acre farm adjoining
Cahoon today at \$150.00 per
a - option to run by Nov 15/99

Also closed option on John Tittle
"Miller farm" today to Nov 15/99
80 acres - \$150.00 per a

Also closed option on John Tittle
"Stewart farm" today to Nov 15/99
100 acres - \$150 per a -

Oberle not at home -

Bishop finished Dr. Cline
farm now on Halsey balance
much on 3 Tittle farms.

87
Fogelsville Pa. June 21/99

Mrs. Salvo + Brubane +
all gathered in Edward
Smiley's farm. Much song
and tunes of proposed option
talked 100 per a - also appeared
to different owner in DuBois +
English - Come again
with all middle west stock
back to telephone - then to
Melvins + W. 2200

Belvidere, Ill. June 23/99

Dr Morris - left blank oak
mounts from Tokon house
close to buildings - mounts
symmetrical about center.
Hilsgarten -

* Hildbrand 136 - a - don't want
to deal 75.00 per a. - want 100.00 -

Bornell - mill on Clark - Munk

Edgar - 75.00 Come from west end
don't want

* Hildbrand - old 75 to 60. Says
he won't want to deal 136 - 2

Angus - not at home -
50 or more want this - 5

Shirley - not
This Taylor - 146 - a - farmer -
25 acres - 50.00

Puttville June 23-1899

Craig farm 160 - acres -

Main of John Craig late of Oxford Ind

John D. Craig - Treas. Puttville

John Craig Or land

John Craig Or land

John Craig Or land

John Craig Or land

John Craig Or land

John Craig Or land

John Craig Or land

John Craig Or land

John Craig Or land

John Craig Or land

John Craig Or land

John Craig Or land

John Craig Or land

John Craig Or land

John Craig Or land

Santa June 23-1899,

Joe R. Butler 87-778 - sed -

74 - a - all told

Count figures for 94 - a - 15,000.
This distance from mill & water
power - which is very good. There
have the mill on the Reservoir brook.

Trulman

Feb - 91 - a - 778 - all told
name - He says he will deal
and wants to have me sign first -

Belvidere June 27th 1899.

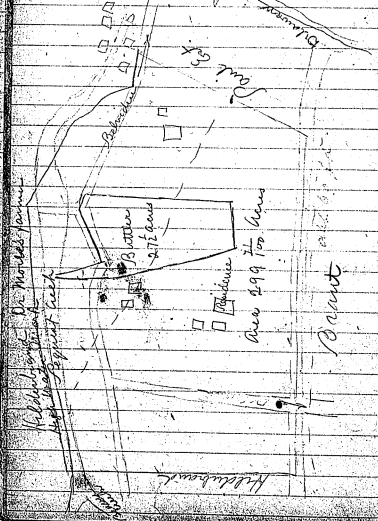
Dr. Morris 300 + a - over it
with Perkins & Hargrave from
Belvidere near the S.W. to Public
road & Morris line N.E.

Morris owns a high water
mark on S. side of Reservoir
river just below the junction
of the Reservoir creek & Belvidere
road and for price to day
came again will take it -
Paul has not at home -

See map of Morris tract
on next page preceding.

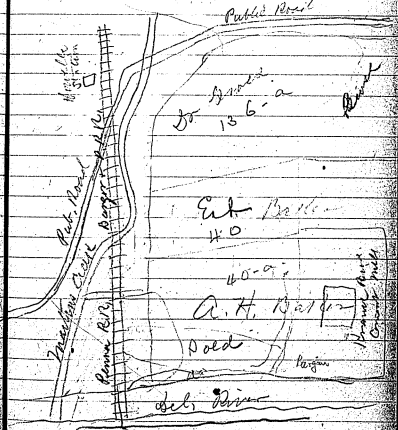
Over Dr. Gross farm &
Baker Sub - with Regulus &
Brisbane

Belmont June 27/99



Martins Creek June 27/99

9 mos - Ed Baker - A. H. Baker



PA
- Odenville Town June 28/99

Arranged to meet Richards at
his lawyers office. Plans
about order of Court to affirm
115.2 acres at 25.00 per a.
on his 3 orchards (matters)
from - Richards will see
know day to meet myself.

Soaked over South side
Land Co tract at Odenville
town - houses built. Lots
sold off. Said to be good
lime stone in bluff back
of house to run to Forest House
current rock said to run
3/4 of orchard front of hotel
to C.R.R. Rigelow says
th. is a single deposit of
good cement but does
not run off freely.

95
Easton Pa June 28/99

Closed this day with
Dr C.S. Grace on his 155.2
at Martins Creek for 222.22
per a till Dec 1/99 -
Atk. before Judge Rock
Easton -

Went to Philip Smith
Chalk at his lawyers
office at 25.00 per a - 115.2
Winter met me -

Dr C.S. Grace -
P.O. New Argyle - Pa

Easton June 28-1899

Kubus farm 80 - a at
Tranton - Ripelow over today

Grants 175 - a
Despite Kubus lives on
farm but much cleared
with Rev E. A. Yehl - Curs
at Bangor brother law of
Kubus - Yehl will be on
farm during July & Aug.

Ripelow says
Kubus good line stone
+ Cement

Belvidere June 29-1899

Pave farm 6 to 7 a - part in town of Belvidere
+ adjacent to Morris on N.E. owned by Mrs
Ripelow of N.Y. now in Europe. Rocky Paul
now at South Wabash - N.Y. at College + by
Mrs. Guntton - Fred Paul now at Altonville
Kubus then says know where - Fred with
J. Rodman Paul - says so - Christ at Paul
+ says with Henry in Paul - says Paul Rich
Pave for his column in Phila for Paul etc
at 100 - a - says 60 a - Paul

Belvidere June 29-1899

Deloria to day Robt Craig offers
to April 1st 1900 - 75¢ per a
100 - a -

Also arranged agreement
with Craig mine -

Banuel farm (Clark. Newark)

OK at 75¢ per a -

Wapler not home -

Bayer

Bayer

Bayer

Better make 15,000 - 7¢ per a

per a - 7¢ per a - 7¢ per a

Edwin not home -

Nedeband not home

5 to 6 p.m. Wain? when the
C. P. train Altonville to
get the owner + go with Oreston
to Logansville for next tomorrow
morning for Jackson -

Dr. Simonson
at Craig
Belvidere

Robt Craig
P. O. Belvidere N.Y.

Altamont June 29-1899.

A. S. Fisher 124 N. 1st St. Altamont
Bolt - Altamont. 7 p.m.
To clear alt. through track
at 11.10 - a - 1 mi. fr. Danton
R.R. wants \$80,000 -

After much talk - we talked
same price. I talked with
Altamont May 14 last.

I told Fisher in presence
of Bob I would do about
myself or my people with
any way to go. Fisher
wanted me to give him
some thing for his services &
for money get something
for Altamont - I replied
I shall possibly not
give you one cent for
anything you do under
any circumstances. Bob
looked up & heard it.

I said Bob & I would
look it over tomorrow. I
talk with me and with
whether I would give more than 150.

99

Altamont June 29-1899.

Dr. J. W. Erdman - 27-2
8th St. Altamont

Erdman farm adjacent
Middle place 17 95 - acres
+ adjacent the little track of 10 - a
Erdman track has alt. 2 - a
Cannon rock + about 17 line
from - 2000 ft. Altamont
cleared 10 - a of line stone
adjacent Erdman -

1 ship track is alt. 1/4 N of
C + F. R.R. Middle Station
alt. 1 mi. N of Egypt

Fittler Farm (Cannon)
Known as Klever farm
on Danton R.R. alt. 6 mi. fr
Hocking agency - 136 - a.

Fittler paid 25,000. or alt. 100 - a
few months ago.

Fogelsville June 30/79

Alfred Geo W. Smoyer - P.O.
Hershey Pa = 52 - a - Expires
July 1st 1900 - 150⁰⁰

Alfred Geo W. Smoyer of 1880 - a -
17th St July 1st 1900 - Expires
one a around Fogelsville
grass yard -

Alfred Geo W. Smoyer - Hershey Pa.

Alfred Geo W. Smoyer - Hershey Pa.

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Alfred Geo W. Smoyer - Hershey Pa.

Fogelsville June 30th 1879

I this day extended Wm. M. Raber
option on his farm 180 - acres
which will expire July 1/99 - from
today to Dec 1/99 - on same
terms - viz 200 - per a - a -

Fogelsville June 30/79

Raber bld. farm of 73 acres
near Morgan fence on Davidson
R.R. 1/2 miles - wants 20000
or 273⁰⁰ per acre - on Colley
Creek. I this day showed

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Creek. I this day showed

Stewartville Md. July 7 1899

This day closed with rain
on Over Outhouse
12-3 acres. at 4 p.m. 1st
17-10-250. per a -
not above within 100 ft
of building.

Hindshaw Court deal
left youngest child crops
at Waterbury 112. Oct 15/99.
then mile above - would
deal now if they could.

Stewartville July 8/99:

First over S. V. Ranges with
Brisbane - obtained all
quads for him & explained
how Mr. E. wants kept.
Brisbane should finish the
drawing work ending July 15/99.

Newark July 10. 1899.

This day closed with rain
at Newark. Col. Henry & Marshall Sts
on the corner of Springdale
farm in Oxford Md. Har-
co Belvidere tracing as
follows

66. acres at 70. per a
after turn to March 1-1900

Frank Cobb. instance

In N.Y. going over Har-
co with J. M. H. getting address
to be to send the above to
W. L. H. H. then to Har-
co on 5.12. p.m. train every
day 8.00 p.m.

Belvidere July 14 - 1899

Mr. Butts - 94-a - saw after
me twice. The after I
Several times - found 125 per
a - 500 ft. N. on 35-90th - he
wants other. Will transfer power.

Thurmer will not for price
till we have first exploded.
Don't ask him only offer
of 75⁰⁰ per a - 91-a.

I this day closed with OY
Morris 299.75 a at 100.15 per
a to Nov 1st next -

See me before any
of plantations under option
plantations conditions etc -

109

Catasauqua July 15 - 1899

Saw J. W. Fuller abt. Rockner
farm - 135 acres - he paid 15,000
Now wants 30,000. Has up some
with diamond drills - will send
me analysis of core + analyse of
man who worked on property.
(Best man in town.) Must give
option at present.

Went to see Geo. W. Brown at
his farm abt. 100 acres -
see him, could not agree, had
option at 100,000 - 100,000
A. Kieppendanger.

Lehigh - July 15 - 1899
Saw A. Kieppendanger abt. 5
fractures at South corner of 300
acres told must see. "per a +
must option one mile for all
But I know of these fractures
have been over this last spring.
Bridgman + Kieppendanger

Sunday July 16 - 1899.

Home to Canton on 7.30 - a.m.
Home.

Mr. Brisbane & Beglar
yesterday to double up & drop
to push their Ave. work also
to back out in their weekly
a.m. to earlier because their
office.

Rev. J. J. Seidenberger
Denver. Cape Co.
Pa.

Mr. W. Oscar Miller (Denver)
Reading. Pa.

Mr. Sabach says July 19 - 1899, at 6.54 a.m.
The Sabach right little timbered
in Sabach farm sold out by
Jeff. Knealy. See Ed of Jim
Holt. Atty. Canton. See Atty.

Catasangua July 15 - 1899.

Wise called me over to his
office - showed me options
from Sil - Dated June 15/99
90 days - Expires Sept 15/99
18 or 20.000 - not including
Beldin tract of 2K a -
Also option
same rate & period from
on Ritter.

Sil - See July 19/99 for
Sil - See Sabach &c.

July 19/99.

Mr. Stenmark
with Bob & Beglar -
Maps. &c.

July 20th 1899.
Phila. Paulist &c.

Miss July 20/99

Henry H. Paul 1897
 9127 Chestnut St. City
 Wash Co. Reddy

Reading July 27/99

Rev J. D. Gresham, pupil

150 for a. Oph. to May 1900
 not given for previous time
 May 1901 - Miss for what
 but the can do with this
 former this much can do
 with me -

Belvidere N. Range July 27. 1899

with Reservoir
 Paul Est 112 - a -
 Fox Morris OK 200 " "
 Spurred for OK 400 " "
 Hildstrand 130 "
 G. 100 " "
 Sp. C & D Co 20 " "
 G. 93 " "
 Craig for OK 150 " "
 D. G. West for OK 90 " "
 Van Horn 175 " "
 Marshall 170 " "
 Marshall 200 " "
 J. H. Hildstrand
 Hilds & J. H. Cook 100 -

Catawauqua July 28th 1899

Geo Bower - has options on
following:

Schroeder farm - 100 - a -
in number 25 - 189 - a

\$50.00 per a - on Windsor RR,
3 mi Cata in Egypt RR -
Coplay creek north thro it.

Brown farm 100 - a - \$50.00
per a - on Egypt RR 1/4 S 7
on RR one farm between Schroeder
Bingman owned by American C. & N.
George farm 80 - a - \$50.00

per a - adjoins on U.S. & is
on South RR - & Coplay creek
in Egypt RR.

All above options
expire Aug 1st 1899. Each
option contains clause for
renewal. Some proprietors
that C. B. Bower is interested in -

Cata. July 29 1899 - Cont^d
Bower wants \$5000. for
George & Brown options - by Sept
1/99.

Belvidere Aug. 15th 1899.

At Belvidere Camp
with Gates.

Belviders Aug 16. 1899

Stess farm 160 - acres
owned by Major Stess on
farm near Rocking E. Pa.
see his son. ^{farm}
runs across P.R.R. to
the river - & is now farmed
by one Frank.

Van Kirk farm - abt 83 - acres
lies between Mameka Creek &
Blawie, N.J. & is now farmed
by one Mahood for 24 yrs.
past. He used but abt
20 ac. on N.E. side of
Earle's farm - runs across P.R.R.
to the river.

Chas. W. Eager - abt 83 - acres
N.E. bank of Dr. Morris on
road.

Bogert farm - on N.E.
line of Beranton right away
to S. corner.

Belviders Aug 17th 1899 ¹¹⁷

Over Belviders range with
Jules & Brisbane as far
as Marshall into York.
& around Mameka Creek.

Belviders Aug 18 - 1899

Met Jas. R. Butts ex Judge
Shipman's office to go over
option for same by
agreement by all North
of Road. But Mr Butts
finally decided after he
grazed there to do nothing
but sell his entire farm
out right & at once for cash
no option.

This day drove with Chas. W.
Eager on his 83 acre farm
on Belviders range abt 80th
for a. option from Feb. 15, 1900
(Jas. Morris)

Ridgely, Pa Aug 18-1899

At Ridgely to see Mr
Graham Edgar and his
family. Received paper and
Bath. Pa. sent Ridgely
(local Mr. Edison on 19th)
Edgar's explanation of the
Aug. 18th 1899.

Allentown Pa. Aug 19/99

To meet Brewster and
Edison. Many officers
at the hotel. Arrived
Sept 1, 1899. Then
back to laboratory, &
many meetings with
Mr. Edison in evening
from Sat afternoon
Aug 19/99.

Blundell Reings. 119

Deas - Vankirk	Vankirk & Hurling
(Ward) - (Ward)	(Smith, Jan)
Dr. Morris	Vankirk - (Ward)
"	
Bogart (Clerk)	Bogart -
Wildebrand J	Bogart
Edgar -	Bogart
Sack	Bogart
Hullmer	King, H. C. Craig
Butts	W. S. Dean -
	Roll Craig

Van. Hope -
Marchal, Hille
Jas. Wildebrand
Hille & Mrs. R. Cook

Stone

Hedger - Parks farm

James H. Kelley & Son, Dry

Stewart, Fritz E. D. V. of Andrew-Kulper Est.

Amos Hulme, Easton

Meadow - 5 or 6 children

Crazy same time of day

8.15. After he doesn't get

There is a creek back
there I got

Then to grand children

[Faint handwritten notes at the bottom of the page]

the night of 4.2.1914

[Faint handwriting]

Revised -

10

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Bulwainth Heranbou Pa

121

Sept 1 - 1899

At Israhelton Tree Bank
also found much talk about
with his wife, who owns the
farm.

Van Kirk at Manitowish
Chick abt form of 20-g
frame - Chick in and

Sept 4th 1899 - Belvidere

Draw a Venn's -

Negotiating with

Dr. August Zoller ~~et al.~~
Mrs. Denison

Mrs. Deviron
Hingham

↓ Hangman

Sunday. Sept 10. 1899.

At Clayton with Bigelow
exam. property there sedimentary
by Mr. Philadelphus.
Said too deep (10 to 15 ft)
no surface indications of
Cincinnati rocks. Though they
are close proximity to Schieffelin &
other Quaternary mounds. Some
little doubt as to right property
but think you said right one
according to description -

But August 1899 - reports

123
Eaton Co - Sept 11 - 1899

John Bush House - old
house and in Dutch farm
at 18 m. road - owned by his
nephew. Little later.
Found 75 ft. a
high level. 100 to 150 ft. a
level - changed each of
explorations. approx 90

Belvidere Sept 14, 1899.

Bargained with Mr. Jones
at 45¢ per a - 1 lb. bunch.

Now as his Alf. says

aphids will not predominate
his other stock -

Alf. about General
says -

At West. Park

Thurs. 14th.

¹²⁵
Belvidere Pa Sept 15/99

Received from

the above - 2 entries

See aphids

Belvidere Pa Sept 17/99
Closed West. Park

Belvidere Sept 27, 1899.

Left aphids with Andy

at Belvidere Pa

Recorded - also West. Park

aphids in both receipts

Recd
Sept 11
Friday

Received from
George L. Miller
Oct 14/99

127

Oct 3rd/99

Bartered this day with
Thomas & Bullman, pros. for
large room in brick building
adjacent to the at 6⁰⁰ per
mo & commenced Oct 1/99
Bullman to supply charcoal
heat & to furnish in 9000
in insurance - his stock &c
Bullman only one to month
Bullman to supply in the said
Bullman to supply in the said
(Monthly branch) 100.00

Recd
Sept 11
Friday

Received from
George L. Miller
Oct 14/99

Bartered this day with John
Bullman, pros. for
large room in brick building
adjacent to the at 6⁰⁰ per
mo & commenced Oct 1/99
Bullman to supply charcoal
heat & to furnish in 9000
in insurance - his stock &c
Bullman only one to month
Bullman to supply in the said
Bullman to supply in the said
(Monthly branch) 100.00

Stewartsville Oct 3rd /99

At N. V. with Curvel
Saw 1/2 with Curvel - also
Saw 1/2 & he accompanied to
Elkland dep. left 1-1500
also active toward 1/2
Saw 1/2 & 1/2 - records to
them 1/2 1/2 1/2

Also saw Parkhurst
he will talk at next week
his wife -

Also saw
V. Oct 4th /99

Saw A. Titter's elch afternoon
Row 1/2 - 1/2 - 1/2 -
Saw a fox 1/2 a - 1/2
in R.R. from 1/2 to 1/2 - 1/2

Oliver Boyer - Representative - 1/2
1/2 - 1/2 - 1/2 - 1/2 - 1/2 -
for a fox 1/2 a - 1/2 - 1/2 -
1/2 - 1/2 - 1/2 - 1/2 - 1/2 -
1/2 - 1/2 - 1/2 - 1/2 - 1/2 -
1/2 - 1/2 - 1/2 - 1/2 - 1/2 -

D. V. Court 1/2 Oct 14/99

Also Chatelier 1/2
1/2 1/2 1/2 1/2 1/2 1/2
1/2 1/2 1/2 1/2 1/2 1/2
1/2 1/2 1/2 1/2 1/2 1/2
1/2 1/2 1/2 1/2 1/2 1/2

Also 1/2 1/2 1/2 1/2 1/2 1/2

Also 1/2 1/2 1/2 1/2 1/2 1/2
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1/2 1/2 1/2 1/2 1/2 1/2
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Easton Oct 4/99

Also 1/2 1/2 1/2 1/2 1/2 1/2
1/2 1/2 1/2 1/2 1/2 1/2
1/2 1/2 1/2 1/2 1/2 1/2
1/2 1/2 1/2 1/2 1/2 1/2

Stewartsville, Pa. Oct 10-1899

Agreed with Salomone Mohr to extend his option from Nov 1-1899 to Jan 1-1900. Said Extension like prepared by me & Salomone Mohr will execute it. (Richard present)

I this told Richard R. Kramlich I would accept. I saw no way of him disposing of his rights as one had seen would it.

Masataway - Pa. Oct 10/99

Agreed this day with Shiff Morgan to extend Joseph J. Morgan's option to Jan 1-1900. from Nov 1-1899.

121
Stewartsville, Pa. Oct 14-1899

I this day closed option with Anna E. blinn on apt 50. - a of her Caleb Rusk farm - at 100⁰⁰ per acre to Jan 2-1900.

Residence - Census.

1 Mile S.W. of Washington

Pleasant Valley above

Mill pond - some evidence

of Cambrian rock around telegraph

pole - might pay to sink

prospecting shaft - No outcrops

S. V. Oct 17-1899 -

I this day obtained
reduction of rental
for frame building rented
from Mrs. Fullerton Oct 1
1899 at \$100 to \$75 per
mo -

Stance W.A.M.
minus of above Nov 1/99

W.A.M.

Elizabeth Otter farm
Consisting of 154.³³/₃ acres,
Dumfries Township.

has been back to Elizabeth Otter
2 back of sd farm

1st back contig 31.³³/₃ acres
" " " 5.⁶⁰/₃ "

56.²⁶/₃ acres.

154.³³/₃
56.²⁶/₃

1.17.³⁷/₃ acres in Dumfries Co.

Cash $\$175.00$ per acre 9 mo.
154.³³/₃ acres - from May 1. 1899

135

John W. Gline
52.⁷²/₃ acres at 150.⁰⁰/₃ per acre
\$ 7,908.⁰⁰/₃ Shampo 9.⁰⁰/₃

Franklin Township.

Samantha Carhart

102.⁷⁹/₃ acres 150.⁰⁰/₃
per acre \$ 15,418.⁰⁰/₃

Samantha Carhart \$ 13,840.⁰⁰/₃

John W. Gline trustee under
will of Jean Gandy - dec'd. \$ 1,578.¹³/₃

Ints. \$ 1,500.⁰⁰/₃
Sub $\frac{78.¹³/₃}{1,578.¹³/₃ - 1,500.⁰⁰/₃ = 78.¹³/₃}$

\$ 5,418.⁵⁰/₃

Land A. Boyer - under lease
from John Britts.

Swamp Area # 9,800.
provided acreage is 80.2¹ acres

Actual area is about 80.45¹

Swamp 10.45¹

9,800 for 80.20 acres is at rate
of 121.2¹ per acre

80.9) 9800.0

Short area 9.45¹ acres
80.45 x 121.2¹ = \$ 9,751.50

137
Shaw and Fitter, under lease
from John Britts.

Area ~~Shaw and Fitter~~ = 90.65¹ a
but after deducting ^{map 5} 10.0¹ RR.

Part of my previously sold of
13.27 a - Reversion

Sh. 64 acres sold
Trans. # 17,705.⁰⁰

Wagon road ^{map 5} 10.0¹ acres

Sold from above to

John W. Clume - 40.75¹ acres
at 70.⁰⁰ per a = \$ 2,856.25⁰⁰

Sarah A. Beyer - under will
from John Fritz

Swamp Run # 7,800.
provided acreage is 80.2² acres

Actual area is about 80.45²

Seely 10.45²

7,800 for 80.20 acres is at rate
of \$ 121.² per acre

80.9) 9800.1

Shad area 9.45² acres

10.45 + 9.45 = \$ 54.51

157
Shirley Fritz, under will
from John Fritz

Area of ~~Swamp~~ = 90.65² a

but after deducting ^{74.5} Swamp "RR"

Rt. of way previously sold of
13.27 a - Recovers

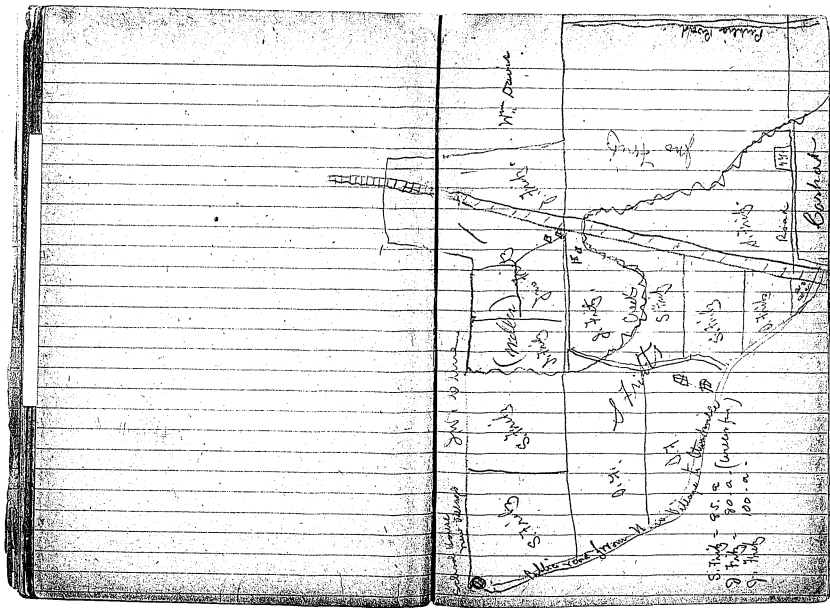
Sh. 64 acres sold
Trus. # 12,702.²

Wagon road reserved in deed

Sold from above to

John W. Cloud - 40.7² acres

at \$ 10.⁰⁰ per a = \$ 2,282.⁵⁰



Stewartville Oct 12 - 1899

Met R. P. Cummings here
Abt Zions profits 1 1/2 mi. North
of Oxford station on DC & W. R. R.

Contains 200 acres known
as Rive's Paul property.

Operated last by the
Betha Mining Co. - (Mr. Wilson
of Vandalia formerly -)
No lease or other manubance
in it.

Cummings says he
spend \$4000 on property
Main all under. Contains 500
Zions shaft 100 ft deep
Tunnel in 20 ft.

From fr Oxford to Rockville
Mentioned the ore

Yellow Caper

Regulus alpestris Van Dyke
 1000 ft. Bay, Bay, Wood lot.

1. Yellow, said to be N. S. W. 13. 800 ft.

2. Yellow, said to be N. S. W. 13. 800 ft.

3. Yellow, said to be N. S. W. 13. 800 ft.

4. Yellow, said to be N. S. W. 13. 800 ft.

5. Yellow, said to be N. S. W. 13. 800 ft.

6. Yellow, said to be N. S. W. 13. 800 ft.

7. Yellow, said to be N. S. W. 13. 800 ft.

8. Yellow, said to be N. S. W. 13. 800 ft.

9. Yellow, said to be N. S. W. 13. 800 ft.

10. Yellow, said to be N. S. W. 13. 800 ft.

11. Yellow, said to be N. S. W. 13. 800 ft.

12. Yellow, said to be N. S. W. 13. 800 ft.

13. Yellow, said to be N. S. W. 13. 800 ft.

14. Yellow, said to be N. S. W. 13. 800 ft.

15. Yellow, said to be N. S. W. 13. 800 ft.

16. Yellow, said to be N. S. W. 13. 800 ft.

17. Yellow, said to be N. S. W. 13. 800 ft.

18. Yellow, said to be N. S. W. 13. 800 ft.

19. Yellow, said to be N. S. W. 13. 800 ft.

20. Yellow, said to be N. S. W. 13. 800 ft.

21. Yellow, said to be N. S. W. 13. 800 ft.

22. Yellow, said to be N. S. W. 13. 800 ft.

23. Yellow, said to be N. S. W. 13. 800 ft.

24. Yellow, said to be N. S. W. 13. 800 ft.

Also, dead

One P. Sance

(Dated Nov 15, 1893)

So

Neel Val 56 1/2

John D. Wagon

21325

If taken showed to some

thus 49 1/2 a track in which

to 672. ~~100~~ - House in on 119 track

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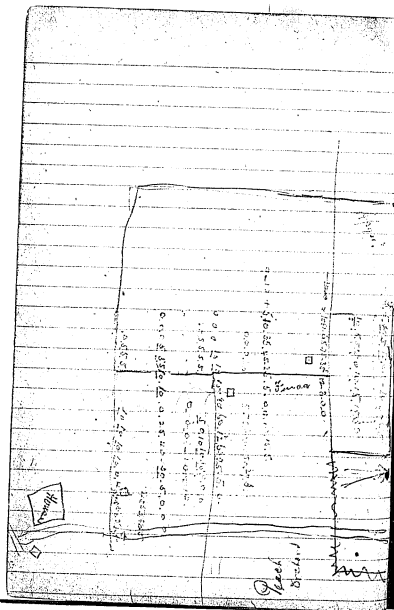
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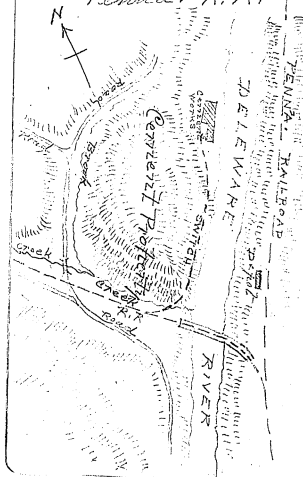
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**Edison Portland Cement Company Records
Plant Operations Notebook, N-99-07-05**

This notebook covers the period July-September 1899. It was used by an unidentified author for notes and drawings regarding a site for the cement works. The selected entries concern Stewartville and other locations in New Jersey, as well as several places in Pennsylvania. The spine is labeled "Prospecting - Stewartville And Surrounds." The pages are unnumbered, and several pages have been removed from the book. Approximately 70 pages have been used.

Approximately 50 percent of the book has been selected. The unselected material consists of data relating to drill holes and limestone samples.

Baker & Co.
Gross Properties
opposite Martins Creek Sta.
Penna. R. R.



Martins Creek July 5-99

Baker & Co. Gross Properties
on the west bank of the
Delaware River opposite
Martins Creek Depot
Penna. R. R.

Description of Land -

The knob containing
the cement rock here is about
150 feet high made up
almost entirely of limestone
and cement rock. The
Delaware River washes the
East side of the knob,
a creek skirts the South
breast of the knob and a
small brook the west side.

That portion of the
knob adjacent to the river
is owned by the — Cement
Co. The West side of the

Martins Creek

Knob facing the Valley
is held under Option by
the Edison P. C. Co.

Material

The rock on the East
side of the Knob along the
river has the appearance
of being high in lime.

That on the West side of
the Knob shows better
material.

Water

Water may be taken
either from the River or
Creek.

Site for works

A piece of gently
rising ground abutting
on the river north of

Martins Creek

Cement Co. Property
is the only apparent
available site for a
works in this vicinity.

This property is only
approachable over the switch
and property of the
Cement Co. and is not
at present under option
of the E. P. C. Co.

Building Material

Good Lime Stones from
the adjoining hills of Daniel
from the Delaware River

Accommodation for men
None

July 4/99

Fogelsville Pa.

Description of land

The property under option here is high rolling Farm land.

Material

There is a large ^{in the body} amount of material here, of apparently good quality, rising about 40 to 60 feet above the level lands ^{which} form the natural building site.

The entire formation dips from N.E. to S.W. at an angle of 15 to 20° and the composition appears to change from N.W. to S.E.

Boyle
Material

Local
Fogelsville

Fagelsville Pa

so that immediately
acrossing the line
under option on the S. E.
the rock merges into
"lime stone".

Along the valley of the
creek on the west side of the property
there is a considerable
deposit of material of laminated
structure probably partially
disintegrated cement rock.

The surface soil is very
light over the high lands,
and the solid cement rock
rises close to the surface
over a large area of
the property.

The cleavage lines trend
easterly & westerly.

Steam Measures are
a. 14 1/2" x 36"

Fogelsville Pa

Shipping Facilities

The Shipping Facilities
consist of a branch of
road connecting ---

Railroads

W. & A. R. R.

Water

The present apparent
available water supply
consists of a brook which
runs thro' the west side
of the lands with a
flow of 220 Gallons
per minute, the brook is fed
from springs said to come

Fogelsville Pa

from gravel. To make up the deficiency of this water supply I would suggest an experiment in deep boring -

The brook may also be dammed and a storage reservoir formed at small expense. (Land owners below may object to this water being taken)

Accommodation for men

The little village of Fogelsville has a population of 500 to 700 and two hotels. The country immediately

Fagelsville Pa

Surrounding is dotted
with Farmers homes
from which a good
supply of help may
be drawn

Building Site

A low almost level
flood plain extends from
the rail road to the
lands under option giving
unlimited room for
works and tracks at
a minimum expense for
grading

at
Fogelsville - Notes

sample 206 supposed to
be shale?

Samples 145-146-147
From Hraunlich place
taken from under shale

Stewartsville

Lands

The Property here under
option is rolling valley
land all under cultivation.

Material

The material here
seems to vary very much
in quality alternating between
Carbonate of lime - Argillaceous
lime stone and Dolomitic lime
stone, rising and falling,
appearing and disappearing,
with no apparent
regularity. The entire
formation dips to the
S. by S.E. at varying angles
from 45° to 70° . The high
portions of the lands rise

25 to 60 feet above the
bottoms of the valleys at
varying slopes from 5° to 30°

The Surface Soil varies
very much in depth, ^{from 0 up} increasing
and decreasing abruptly
indicating a very uneven
surface of the rock beneath.

The cleavage of the
rock trends from East
to West which probably
corresponds with the
trend of chemical
composition

(Shrovettsville)

Shipping Facilities

The Eastern branch
of the D. L. & W. Ry. Passes
through the property from
East to West.

The Lehigh Canal parallels
the property running E. & W.
 $\frac{1}{4}$ to $\frac{1}{2}$ mile distant on the
north side.

Water

The Potomac Creek
affords an ample supply
of water at the East
end of the properties &
the Canal is convenient
to the West end.

(Stuwartsville)

Residences for Mine

The Village of
Stuwartsville has a
population of about 500
people, two small hotels
or inns. The Country
surrounding is quite thickly
settled.

Building Site

The Properties under
option affords two fairly
good sites for building
adjacent to or approachable
by the Railroad. One
adjoining Stuartsville on
the North West, near the
Canal. - The other North

west of New Village
Depot between the
Railroad and Creek
the latter ^{side} would
necessitate considerable
grading. These
sides are ^{both} convenient to
the two principal bodies
of material under option,

Odenwelder or West Easton

The cement rock here
lies in a knob rising
about 100 feet above
the Lehigh river.
Odenwelder is a suburb
of Easton and the property
in question has a number
of houses built on it
and others in course
of erection.

There is not sufficient
material in sight to warrant
the erection of a works
of large capacity, and there
is no ground convenient
on which to build a large Works.

Belvidere, N.J.

Land

The lands containing the cement rock in this vicinity are mountains rising on the Gibbs & Craig farms at an elevation of 470 feet above the Delaware river and 300 feet above Beaver creek in the adjoining Valley. The contemplated options embrace properties covering a distance of about five miles extending along the North banks of the Raritan and Beaver creeks

Belvidere

Material

The cement rock in this vicinity varies in appearance and different properties. From dark blue hard stone on the Morris tract to a soft brown stone on the surface of the Gibbs and Craig properties. The cement rock on the latter properties is very massive rising to the crest of the highest knobs.

A ridge of lime stone intervenes between the cement rock and the Request Creek. Far

Belvedere

a distance of two or three miles East of the Dr. Harris tract.

The Entire Formation in this vicinity dips to the S. by S.E. at varying angles about 40° to 60° .

The Surface Soil consisting of gravel and loam or yellow clay varies in depth on the different properties from 0 upwards.

The cleavage of the rock runs Easterly and Westerly - which is probably the trend of chemical composition.

Belvidere

Shipping facilities

Lehigh & Hudson R.R.
Del. & N.J. R.R.
Pennsylvania R.R.

Belvidere

Water

Water may be taken from the Pequest Creek or Delaware River as may be most convenient to the site selected for the works.

Accommodation for Men

Belvidere has a population of about 1800 to 2000 with several hotels.

Belvidere

Site for works

a stretch of level
ground bounded by
the Pequest Creek on
the North, the $\frac{2}{3}$ & 1/4 H. Ry on
the South the City of Belvidere
the West and hills on
the East affords a
Favorable Site for
a works, approachable
by the railroads,
convenient to water & of
home for men, and
convenient for a track
or tracks to the cement
lands

Exford Township Warren Co Lot N^o 2
Mary Hess - Widow

Beginning at a stake at the road leading
leading from Belvidere to Hope thence
N 36 $\frac{1}{2}$ ° W 5.66 Chs thence N 59 $\frac{1}{2}$ ° E 2.78 Chs
thence S 43 $\frac{1}{2}$ ° E 6.50 Chs to a stake in road
thence along road S 49 $\frac{1}{2}$ ° W 4.75 Chs to place
of beginning Containing 2 $\frac{1}{4}$ acs. -

C. W. Earpe Oxford T.P.

Beginning at Cor of R.R. lands
of the Warren R.R. Co and
lands formerly of Amos W.
Cramer and running as
the Middle Pointed 1878 - South
 $36\frac{1}{8}^{\circ}$ E. 48 chs 12 links to Cor
of Joint of Lewis and Public
road leading from Belvidere
to Scribner, thence down Sand
road S. 65° W 30 chs 2150 links
to Cor in Sand road thence
N. 11° W 26 chs 25 links to a
stake which bears N. $56\frac{1}{2}^{\circ}$ E.
from the Belvidere Water
works thence N. $44\frac{3}{4}^{\circ}$ E. 8 chs 20 links to stone,
thence N. $31\frac{1}{2}^{\circ}$ W 19 chs 65 links
to stake on hill in the line of
the R.R. land, thence N. $23\frac{3}{4}^{\circ}$
E. 2 chs 94 links to a black
oak

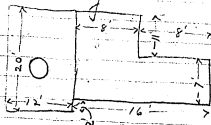
thence $N^{\circ} 53^{\circ} E$. 2 chs 1.60 mls
thence $N 74\frac{1}{2}^{\circ} E$. 2 chs 37.60 mls
thence $N. 66\frac{1}{2}^{\circ} E$. 1 ch. 33.60 mls
to place of beginning
Containing 83²⁰ acls
Surveyed by E. G. Ware

**Edison Portland Cement Company Records
Plant Operations Notebook, N-02-01-23**

This notebook covers the period January 1902-May 1903. It was used by Cloyd M. Chapman for work undertaken at Stewartville on behalf of the Edison Ore Milling Syndicate, Ltd., and related interests. The notes pertain to briquetting experiments, furnace trials, kiln runs, and other tests using ores from Ogden, New Jersey ("Edison concentrate") and the Dunderland region of Norway. The front cover is labeled "Furnace Book." The book contains 193 numbered pages. Many pages are blank; one page was removed before the book was paginated.

Mineral Wool Experiment
 Steam pipe line from boiler
 to black furnace - $1\frac{1}{2}$ " pipe
 covering for steam line
 Trap " "
 Superheater " " "

Building -



Mineal Wool experiment

Two more burners for furnace

Holes cut for " " in " "

Furnace for Superheater

1/2 in. line to Heat furnace

3" Air line " " "

Fire brick made adjustable

16-23-02

Blast furnace trial #1

Did not run very slowly with minimal draft i.e. four hours then slight blast for two hours then put on about 5" blast (by water gauge) and 4 charges as follows: (Same as add. to 200)

Yellow pine	85% lbs
Insulation	27 1/2 "
Soda	2 lbs 11 1/2 oz
Coke	17 lbs

When last charge was put in furnace it suddenly froze over stopping all draft. Had to let out bottom and clean out furnace. Bottom of furnace was at level of lower tap.

1/24/02

Blast furnace trial #2

Did more quickly than yesterday getting up to full blast in about five hours. Used partly fused charge taken from furnace after last trial with addition of 2 lbs 11 1/2 oz soda and considerable larger proportion of coke. Did furnace very gradually and cautiously to inhibit against freezing.

Charge melted down but did not become liquid enough to run from top hole - very little came out - remainder too thick and caked with coke to run. Used lower tap - not hot enough.

1-26-02

Blast furnace trial #3

Fired as yesterday using same charge over against hot building bottom of furnace up to upper taps hole added little more soda.

Charge melted down but was too thick to run from furnace hot hot enough to be liquid.

1-29-02

9

Blast furnace trial #4.

Started fire with wood at 9 AM. Heated slowly until 11 AM. put on fine coke and heated at moderate blast until 1 PM. then fired up rapidly until 2 PM. when had a strong heat with good coke.

Kept tap hole open until charge which was same as used in run to 1 (fresh) was melting down at about 2:30 - then closed tap hole until some of charge was melted and tried to tap off - very little slag was obtained because it was not fluid enough to run.

Furnace bottom at upper tap hole.

Black furnace trial #5

Furnace bottom level with upper
tap hole. Good Ca. coke.

Went slowly to white heat -
fed half broken window glass
to half coke. Kept tap hole
open. Glass ran from
furnace without clogging tap
hole but not fluid enough
to catch in ladle and pour
again. - After this lining of
furnace - fire brick common - in
this place - had to shut down.
Before shutting down started
to feed slag from B. F. trial #3
and it melted down but was
not liquid enough to run from
furnace. Soon after this began
pouring had to stop on account
of hole in lining.
The glass after cooling was very
brittle.

Black furnace trial #6

Had lining of furnace removed
and Magnesia blocks - basic -
put in to prevent silica getting
into slag.

Fired up very slowly and fed
half slag from trial to 4 and
half good quality coke. Bottom
of furnace level with upper
tap hole. Got good heat before
beginning to feed. Kept tap
hole open. Slag melted but
would not run from tap hole -
opened tap hole up higher
and let black come thro' with
the slag and it flowed fully
as well as glass did in trial #5.
The slag after cooling was very
brittle.

12-5-02

Blast Furnace Trial #7

Heated furnace slowly as before until very hot. The top tap hole opened - bottom $1\frac{1}{2}$ " below tap hole.

Brought up charge to .02.9 and met the stiff mud - fed 66# coke per 100 lbs charge.

Charge nearly froze over at one time - choked off draught.

Slag flowed from furnace about as thick as glass and was very brittle when cold. Charge same as on trial #1.

2-8-02

Blast Furnace Trial to 8

Furnace conditions same as last trial. Charge not ground up - fed about 50# coke to 100# charge - was not enough coke - charge would off at towers - had to stop run.

Up to time of cooling the slag ran well - best results yet obtained.

13

2-9-02

Blast Furnace No 9

15

Hot Blast for Capsulo.

Height of furnace top from ground

101'-0"

Height of flare on top of furnace

3'-3"

Diam of stack inside 14"

Diam. flue outlet 12"

Center of furnace to outside of

building 15'-6"

center Diam. blast ring on Capsulo 3'-11"

Diam. pipe of " " " 6"

Height of " " " " " 5'-2 1/2"

Height of air discharge when

vertical 3'-0"

Test of 4" screw conveyor
with ground glass
wt of box 4#

10 turns delivered (slow)	(9.5) lbs. out
20 " "	17.5 "
10 " "	8.5 "
20 " "	17 "
20 " " (fair)	17 "
20 " " (very fast)	17 "
20 " " "	16.5 "
20 " " "	17 "
20 " " quite slow	17 "
20 " " very slow	16.5 "
20 " " " "	17. "

8.473# per rev.
190) 161.0 8473
152 0

980
1000
16.6 " min
1330
19.6 rpm to deliver 1,000 per hour.

Test of 4" screw conveyor
with Edison Conc.
Wt of box 4#

10 turns fairly fast	25.5# net
20 " " "	51.5 "
20 " fairly slow	54. "
20 " fast	54.5 "
20 " fairly fast	52. "
20 " very slow	47. #
20 " "	52 "
20 " "	46.5#
20 " fast	54.5 "

170) 437.5
lbs delivered per rev. 2.57
20000 lbs per hr
333 " " min
130 rpm. to deliver 10 tons per hr.

2" screw conveyor powdered coal
delivered 2 1/2 100# per 50 rev.
or 100# per hr. for every 41 rpm

Sprocket wheels to be
had -
No. of teeth -

6	18	48
7	20	58
8	22	
11	30	
12	38	
14	45	

To feed 5 tons per hour
miser to run at 55 rpm
iron feed to run at 65 rpm
grasse feed " " " 98 rpm

Countershaft to run at 100 rpm
6 tooth sprocket on counter to 58 on grasse feed
12 " " " 18 " iron " "
22 " " " 38 " miser

on motor 5"	rpm 90	to feed screw
on 1 st Counter 34"			rpm 132
on " 24"	rpm 132	to 2 nd Counter
on 1 st " 12"	rpm 100	
on 2 nd " 16"	rpm 100	
on feed screw 6"	rpm 530	to 1 st "

4/30/02

Kiln Run to #1

Kind of rotary kiln as a stationary or continuous kiln. Bricked over bottom of kiln to make level bottom 20" wide about. Moulded brick in place in furnace and heated with powdered coal.

Ran two of each kind of brick - one set near front of furnace & other set near back. Found that back brick baked fully as well as those in front. First two brick which were hit by coal flame melted down a considerable

The different forms of brick and shapes tried here: -

#1 Brick 5"x5" at top 7"x7" at base & 6" high containing 5% glass and 1/2% clay in Edison Comb. It was not baked hard enough - very soft in center & on bottom.

#2 Brick same as last with hole down thru middle 2" diam at top

and $1\frac{1}{2}$ " at bottom - it
baked better than brick #1
but was still soft on bottom.

#3 Brick $6\frac{1}{2}$ " square & $2\frac{1}{2}$ " high
of same mixture - baked
soft on bottom.

#4 Brick 3" sq at top & 5" sq
at base & 6" high of same
mixture as #1 - baked hard
on top but soft on bottom.

#5 Brick of same size as
#1 of Edison Conc, 5% glass
and 1% clay - soft in center
& on bottom.

#6 Brick same size & hole as
#2 of mixture same as #5 -
baked hard on top - soft on
bottom.

#7 Brick same size as #1 with
E. Conc. 5% glass moistened
with saturated solution of

Sodium phosphate - crust
baked $\frac{1}{2}$ " thick on outside - soft
remainder soft.

#8 Brick same size as #1 -
E. Conc. 5% glass moistened with
Sat. Sol. American Oil & Supply
Co's Soda Ash - baked $\frac{1}{2}$ "
crust on outside - remainder very
soft.

#9 Brick same - E. Conc. 5% glass
moistened with Sat. Sol. Solvay
Co's Anhydrous Carb. Soda.
Baked with crust & very soft
inside.

#10 Same except moistened
with Sat. Sol. Sulphate Iron -
Crust outside soft inside.

#11 Brick same - E. Conc. 5% glass
 $\frac{1}{2}$ % clay moistened with Sat.
Sol. Solvay Soda - crust outside
soft inside.

Each of these had two samples in them and at front end one brick divided into 4 sections thus:-



Dividing space $\frac{1}{2}$ " wide at top and $\frac{1}{8}$ " at bottom. This baked best of any in kiln but was in hottest part.

Next run to be made with special attention to getting circulation of hot gases thro' bricks.

5/2/02 Kiln Run No. 25

Thermal conditions same as last run - made two sets of 12 bricks of the following description:-
Each moulded of Edison Concentrate with dust blown out of it - 5% of glass & $\frac{1}{2}$ % clay. Dried for $\frac{1}{2}$ hrs at nearly white heat.

#1 Brick 5 sq at top, 7 sq at base - 6" high - divided into 4 parts by opening $\frac{3}{8}$ " wide at top & $\frac{1}{4}$ " at base - had two half round holes or arches thro' base running lengthwise of kiln - these holes were half of a 1" circle.



Baked fairly well but not very hard on bottom.

- #2 Brick same size as #1 with hole $1\frac{1}{4}$ " diam. thro' in direction of length of kiln. Baked soft on bottom.



- #3 Same as #2 but hole turned at 45° with axis of kiln. Baked very soft on bottom.

- #4 Same as nos 2 & 3 but hole turned at right angles with axis of kiln. Baked very soft on bottom.

- #5 Brick same size as #1 but having a square fire brick $3\frac{1}{2}$ " thick in its bottom and a hole down thro' its middle $2\frac{1}{4}$ " in diam. Not hard on bottom.

- #6 Same as #5 but fire brick in bottom is rounded and $1\frac{1}{4}$ " high. Not hard on bottom.

- #7 Same as #5 but with a size C Patterson Crucible inverted in its middle. Not hard on bottom.

- #8 Brick same size as #1 with hole thro' its middle $2\frac{1}{2}$ " diam at top & 2" at bottom. Baked fairly well but not very hard on bottom.

- #9 Same as #8 but hole 2" diam at top & $1\frac{1}{2}$ " at base. Soft on bottom.

#10. Same as #1 but hole
at bottom turned at 45°
with axis of pipe
fairly hard on bottom

#11. Same as #1 but space
between parts of brick only
 $\frac{1}{2}$ " at top + $\frac{1}{8}$ " at base, no
hole in base. Set in
mud on bottom.

#12 Same as #1 but hole
in base turned at right angles
with axis of pipe.
fairly hard on bottom

Each of these was duplicated
and in front of the second
set was a brick of Edison
cone, 5% clay divided into
four parts.

Also one of same size but
containing 5% glass + no clay

These clay + glass bricks
seemed of nearly equal hardness

In front of all and to protect
them from the direct flame
from the cone gun were placed
two bricks of Edison cone 5% glass
+ $\frac{1}{2}$ % clay

Heat of this gun was too high
as most of the bricks melted
down somewhat.

Went now to try value of clay
+ glass + clay + glass in bricks
having openings this time
base.

Brick of form of #1 showed
up best results.

Kiln Run No 3

General conditions same as previous runs.

Bricks of following description were baked:

- #1 Brick 6" sq at top 7" at base 6" high divided into 4 parts with space $\frac{1}{2}$ " wide at top and $\frac{3}{4}$ " wide at base. Holes three base 1" wide and 1" high rounded at top at 45° to axis of kiln Edison Conc. with 5% of a mixture of 95% clay + 5% slaked lime.
Soft - Perhaps not hot enough

- #2 Brick same form as #1 with holes running in direction of axis of kiln Edison Conc. with 5% of a mixture of 90% Red clay and 10% slaked lime.
Soft perhaps not hot enough

- #3 Same form of Brick as #1 with holes running at right angles to blast. Edison Conc. with 5% of a mixture of 85% Red clay and 15% slaked lime.
Soft on bottom - harder on top - perhaps not hot enough

- #4 Brick same size and same partitions as #1 but holes three bottom 2" high instead of 1". Holes set at 45° angles to blast. Edison Conc. with 5% of a mixture of 80% Red clay and 20% slaked lime.
Fairly hard -

- #5 Brick same form as #4 but holes set at 90° with axis of kiln. Edison Conc. with 5% of a mixture of 75% clay and 25% lime good brick

#6 Brick same form as #4 but holes set parallel to axis of kiln. Edison Cone with 5% of a mistune of 70% clay and 30% lime.

#7 Brick same size as #1.
but hole this bottom $\frac{1}{2}$ " wide
and 2" high Edison Cone.
with 5% of a mixture of 60% clay
and 40% lime. Soles 45" in size
of kiln = Soft on bottom fairly hard
on top.

#8. Brick came in #7 but holes
set parallel with axis of kiln
Edison Cone. alone
Fairly hard.

#9 Brick same as #7 but holes
at right angles with axis of kiln
Edison Cone with 5% Red Clay
Dunderland " " "
One half of brick Edison Cone &
one half Dunderland Cone.
Edison better than Dunderland
Neither good -

710. Brick 5" square at top 7" sq. at base 6" high - ~~factor~~ divided into four sections $7\frac{1}{2}$ " apart at base & $7\frac{1}{2}$ " ~~wide~~ at top. Holies three bottom $1\frac{1}{2}$ " wide & 4" high. Edgison Come with 5% of Pottsville Clay on one side & Dundeland Come with 5% Pottsville Clay on other half of brick - Holies at 45° with Glass of Kilm - Kitchen half neighborhood - ~~Below~~ Dundeland half head on top where it was packed hard and kept on bottom where it was evidently not packed tightly together.

#11. Brick same size as #10 but holes at 90° with axis of kiln Edison Conc. 5% mixture of 25% glass and 75% Red clay. not very good

#12. Brick same as #10 but holes parallel to axis of kiln Edison Conc. with 5% of a mixture of 50% glass & 50% Red clay. Good - bottom soft - very hard on top.

#13. Brick of 16 sections each 3 1/8" sq at base & 2 3/8" at top 6" high and 1/4" apart at base & 1/4" apart at top Edison Conc. with 5% glass and 1/2% Red clay. Hole thru bottom each section 1/4" thick 1/2" wide & 2" high. Good

#14. Brick 6 1/2" sq at top 7" sq at base 6" high divided into 4 sections 1/4" apart at base and 1/4" at top. Holes thru bottom 1/4" wide at bottom 1/4" at top & 2" high. Holes running at 45° to axis of kiln Edison Conc. with 5% of a mixture of 75% clay and 25% glass. Good

#15. Brick same size as #14 but holes set parallel with axis of kiln Edison Conc. with 4% glass and 1% Red Clay. Very good

#16. Same as #14 but holes at 90° with axis of kiln Edison Conc. with 3% glass and 2% Red clay. Very good

#17. Brick 6" sq. at top 7" sq. at base.
6" high sections $\frac{5}{16}$ " apart at
bottom and $\frac{1}{2}$ " at top. Holes
thru bottom same as #14.
Holes running parallel to axis
of kiln. One half of brick of
Edison Cone with 3% glass & 1%
Red Clay - other half of Dundee
Cone - 0.5% glass 1% clay.
Soft on bottom - hard on top
Edison better than Dundee.

#18. Brick 5" sq. at top 7" at base
6" high partitions $\frac{5}{16}$ " thick at base
 $\frac{1}{2}$ " at top. Holes $\frac{1}{2}$ " wide 3" high
Edison Cone. 4.5% clay 1% slaked
lime. Holes at 45° with axis of kiln
Soft on bottom - hard on top

#19. Same as #18 but holes parallel
to axis of kiln. Edison Cone
with 4% clay (red) and 1% slaked lime
Same

#20. Same as #18 but holes at
90° to axis of kiln. Edison
Cone with 3% clay 1% slaked
lime.
Good - hard

#21. Brick same as #18 without
partitions and with round
hole thru the middle 2" diam
at top and 1" at bottom.
Holes running parallel with
axis of kiln. Edison Cone with
5% glass $\frac{1}{2}$ % clay (red).
Very good brick - very little of
soft portion in bottom.

#22. Brick same as #1 of last
run. Holes parallel with axis
of kiln. Edison Cone with 5%
glass & $\frac{1}{2}$ % red clay.

#23 Bricks, 6" sq. x 11-0-0
without partition holes
parallel with axis of kiln
Edison Conc. 5% glass $\frac{1}{2}\%$ red
clay

Put run by Dundeland on
in one section of each brick
with combinations of clay, lime
telepar, glass.

May. 12 - 02 Rile Run #38

Furnace Conditions same as
previous run. Bricks
of Edison Conc. with one
section of Dundeland Conc.
Edison Conc. mixed with glass
5% and red clay $\frac{1}{2}\%$.

Fired for $1\frac{3}{4}$ hrs. then let stand
#15 min. before opening front of kiln
- Dundeland conc. with
5% of mixture of 90% red clay & 10%
slaked lime.

Brick 6" sq. at top - 7" sq. at base
divided into 4 sections $\frac{5}{16}$ " apart
at base $\frac{1}{2}$ " at top each with
hole thru base $\frac{1}{4}$ " wide at
bottom $\frac{1}{4}$ " wide at top & 3" high
Brick elevated on two fire
bricks.

Holes at right angles with axis
of kiln.
Dundeland conc in rear
left section of brick

Very soft. Edison brick hard
not very hard on bottom.

#2 Brick same but holes parallel with axis.

Dundeland cone in rear left section of brick - with 5% of mixture of 95% red clay + 5% slaked lime.

Dundeland soft - Edison hard not very hard on bottom.

#3 Brick same as #2.

Dundeland Cone in front right section - with mixture of 80% red clay + 20% slaked lime.

Dundeland soft - Edison hard not very hard on bottom.

#4 Brick same as #1.

Dundeland Cone in front right section with mixture of 85% red clay + 15% slaked lime.

Dundeland soft - Edison hard not very hard on bottom.

#5 Brick same as #1

Dundeland cone in rear right section with mixture of 75% red clay + 25% slaked lime.

Dundeland soft -

Edison not very hard on bottom.

#6 Brick same as #2

Dundeland Cone in rear right section with mixture of 75% red clay + 30% slaked lime.

Dundeland soft -

Edison not very hard on bottom.

#7 Brick same as #2

Dundeland Cone in front left section - with mixture of 60% red clay + 40% slaked lime.

Dundeland soft -

Edison hard, fairly hard on bottom.

#8 Brick same as #1
 Underland Cone in front
 left section - with 5% of
 mixture of 80% red clay + 20%
 slaked lime.


Underland soft.
 Elison hard + hard on
 bottom.

#9 Brick same as #1
 Underland Cone in rear
 left section with 5% of a
 mixture of 80% red clay, 20% slaked
 lime + also 2 1/2% of main
 Zepan

Rather soft.

#10 Brick same as #2
 Underland Cone in rear
 left section with 2 1/2% Zepan
 + 5% of a mixture of 70%
 red clay + 30% slaked lime.
 Harder than #9

#11 Brick same as #2
 but hollowed out under-
 neath to make an arch

 5' high

Brick 4' high
 Underland Cone in rear
 right section with 2 1/2% of
 main Zepan and 5% of a
 mixture of 60% red clay + 40%
 slaked lime

Brick hard - hard on bottom
 Result no better than with solid
 brick under iron brick.

#12 Brick same as #1
 on brick like #11 - Underland
 Cone in rear right section - with
 2 1/2% main Zepan + 5% of a
 mixture of 80% red clay + 20% lime.
 Brick hard - fairly hard on
 bottom.

#13 Brick same as #1 - on fire brick
 like #1 also, Underland Cone
 in front left section with 2%
 main Zepan + 5% of a mixture
 of 70% red clay + 30% slaked lime
 Brick hard + soft on bottom

#14 Brick same as #2

Underland Cone in front left section with 5% of a mixture of 90% white clay + 5% Zephan

Brick not as hard as #13

Rather soft on bottom

#15 Brick same as #2

Underland Cone in front right section with 5% of mixture of 90% white clay + 10% Zephan

Brick full down in furnace

#16 Brick same as #1

Underland Cone in front right section with 5% of mixture of 85% white clay + 15% Zephan

Brick not very hard

#17 Brick same as #1

Underland Cone in rear left section - with 5% of mixture of 80% white clay + 20% Zephan

Brick not very hard - brittle

#18 Brick same as #2

Underland Cone in rear left section with 5% of mixture of 70% white clay + 30% Zephan

Brick rather brittle

#19 Brick same as #2

Underland Cone in rear right section with 5% of mixture of 60% white clay + 40% Zephan

Brick fairly hard

#20 Brick same as #1

Dundeland Cone in rear
right section with 5% of
mixture of 50% white clay +
50% glass

Brick hard - bottom fairly
hard.

#21 Brick same as #1

Dundeland Cone in front
left section with 5% of
mixture of 80% white clay +
20% glass

Brick hard - fairly hard
on bottom

#22 Brick same as #2

Dundeland Cone in front
left section with 5% of
mixture of 60% white clay
and 40% glass

Brick hard - fairly hard on
bottom

#23 Brick same as #2

Dundeland Cone in front
right section - with 5% of
mixture of 40% white clay
and 60% glass

Brick hard - fairly hard on
bottom

#24 Brick same as #1

Dundeland Cone in front
right section with 5% of
mixture of 20% white clay +
80% glass

Brick hard - fairly hard on bottom

~~No~~ Bricks of Edison Cone in
front.

Best results obtained with
the Dundeland Cone were
with mixtures of White Clay +
glass. = 80% clay to 20% glass per
load of one worked well -

also mixtures of white clay and Telapar when more than 40 lbs of Telapar per ton was used.

Also mixtures of red clay - slaked lime & telapar.

The Edison Conc. baked fairly hard on the bottom in all cases.

May 14 - 02 Sklen Run to 5-

Furnace Conditions same as before - Each briquette placed on two fire bricks.

Briquettes of same form as Brick No. 1 of last run but with four $\frac{3}{16}$ " round holes thru base - $\frac{1}{2}$ " thru base of each section.



All holes parallel with axis of kiln.

Each brick has one section of Dunderland Ore & three sections of Edison Ore - Edison ore mixed with 5% of glass & $\frac{1}{2}$ % Red Clay.

First 5 bricks have the $\frac{3}{16}$ " holes No. 6 to 10 have not the $\frac{3}{16}$ " holes No. 11 to 24 had brick 6" high at top - 7" at base, 6" high - partitions $\frac{1}{4}$ " wide at base $\frac{1}{4}$ " at top - holes 1" wide at base $\frac{1}{8}$ " wide at top - $3\frac{1}{4}$ " high, $\frac{3}{8}$ " holes thru base same as above brick

- #1 - 80 Red clay; 50 Zilspar; 20 lime.
fairly hard.
- #2. 80 Zilspar; 20 glass. 12 clay. ✓
hard
- #3. 80 Red clay; 50 Zilspar
hard
- #4. 60 Zilspar; 12 Red clay
hard
- #5. 80 Red Clay; 40 Zilspar, 20 lime -
hard.
- #6. 40 Red clay; 15 Zilspar; 25 glass.
hard.
- #7. 80 Red clay; 40 Zilspar
fairly hard
- #8. 40 Red Clay; 50 Zilspar; 10 glass.
fairly hard
- #9. 60 Red Clay; 40 Zilspar
not very hard
- #10. 90 Red Clay; 10 glass.
not very hard
- #11. 50 Red clay; 50 Zilspar
- #12. 85 Red clay; 15 glass.
- #13. 40 Red clay; 60 Zilspar.

- #14 80 Red Clay; 20 glass
- #15. 50 Red Clay; 40 Zilspar
- #16 90 White clay; 10 glass.
- #17 40 Red Clay; 40 Zilspar.
- #18. 85 White clay; 15 glass.
- #19. 50 White Clay; 50 Zilspar
- #20. 80 White clay; 20 glass.
- #21 40 White Clay; 60 Zilspar.
- #22. 40 White Clay; 50 Zilspar; 25 glass
- #23 40 White Clay; 50 Zilspar; 10 glass
- #24. 40 White Clay; 60 Zilspar; 15 glass.

Run made at night and
heat was too low. Buckles
all soft on bottom. Nxt

run to be of same mixture as this one but try to fire brick floor instead of separating the fire bricks into pairs under each briquette as in last Run.

Also try taller brick

May. 17-02 Kiln Run No 6 54

In this run the furnace conditions were still the same as in all previous runs.

The mixtures used were the same as in the last run. The first two bricks Nos. 1 & 2 were made 9" high instead of 6 but were otherwise of the same dimensions as Nos. 11 to 24 of last run.

The first 6 bricks Nos. 1 to 6 were set on an extra layer of fire brick closely set - not on separate squares of brick.

Nos. 7 to 24 were each set on separate squares of brick 3" apart - about

Bricks Nos. 20 to 24 were made of the same mold as bricks Nos. 1 & 2 but cut off to 7 1/2" high.

They were fired for 1 3/4 hrs at a high heat - firing part of the front bricks

Bricks nos. 1 & 2 were very difficult to mould on account of their light to trouble in moulding any of the others.

The larger bricks - nos 20 to 24 baked as well as the small ones.

The best mixtures were those containing 10 to 20 lbs. of glass with about equal parts of clay and felspar but those with about equal parts of clay & felspar were fairly good while those containing lime were quite soft.

May, 21, 02

Trials of single brick machine worked by hand to find what weight is necessary to compress standard and what distance it must fall.

Brick moulded, was $7\frac{1}{2}$ " high with a base $3\frac{3}{8}$ " square and a top $2\frac{3}{8}$ " sq. Each brick weighing about $4\frac{1}{2}$ lbs.

Held this bottom of brick 3" high, $1\frac{1}{4}$ " wide at bottom and $\frac{1}{4}$ " wide at top.

Plunger 127571150 + 127572420

Drop 18"

Sank 1st blow $3\frac{1}{2}$ "

2nd " $\frac{1}{4}$ "

3rd " $\frac{1}{4}$ "

Strong enough to stand

Plt same as above

Drop 10"

1st + 2nd $3\frac{3}{4}$ "

3rd $\frac{1}{4}$ " Strong enough to stand

Plt same as above

Drop 8 $\frac{1}{2}$ "

1st drop sank $3\frac{5}{8}$ "

2nd " $\frac{3}{16}$ "

did not stand.

Plt same as above

Drop 6 $\frac{1}{2}$ "

1st drop sank $3\frac{1}{2}$ "

2nd " $\frac{3}{16}$ "

3rd " $\frac{1}{16}$ "

did not stand

Plt same as above

Drop 3 $\frac{1}{2}$ "

3 drops

did not stand

Plunger same as last
Drop $8\frac{1}{2}$ "

1 drop
stood but fell easily

Plunger 1275+1150+1275+2420+8500
Drop $8\frac{1}{2}$ "

3 drops, strong enough to stand

Plunger same as in above
Drop $8\frac{1}{2}$ "

1st drop	stands	$3\frac{13}{16}$ "
2 nd	"	$\frac{3}{16}$ "
3 rd	"	$\frac{1}{4}$ "

strong enough to stand

Plunger - 7110+1160
Drop $10\frac{1}{2}$ "

to weak to stand

Plunger 7470+1160
Drop $10\frac{1}{2}$ "

3 drops
strong enough to stand

Plunger 2420+7470+1160
Drop $10\frac{1}{2}$ " 2 drops
pretty good

Plunger 11050
Drop $10\frac{1}{2}$ " 2 drops
very good

June 12-02
Kiln Run No 7.

Furnace Conditions same as in former runs.

Mould used ~~is~~ $7\frac{1}{2}$ " high
7" ^{square} at base with $\frac{1}{4}$ "
between sections - $\frac{1}{2}$ " taper
on each side - Core 3" high
 $1\frac{1}{4}$ " wide at base

Each brick set up on five
brick ~~or~~ on a brick $2\frac{1}{2}$ "
high. $7\frac{1}{2}$ " sq. made of following
mixtures of parts.

No.	Cement	Surclay	% gravity	% gravity
1	1			cracked
2	4	1		soft
3	2	1		fair
4	1	1		"
5	1	2		good
6	1	4		cracked
7	4		1	soft
8	2		1	"
9	1		1	"
10	4			1. "
11	2			1. fair
12	1			1. "

The bricks of Dundeland are
were mixed with the following
weights in lbs. per ton of
binders.

No.	Reddish mudstone	Blue clay	Zebray	white clay	
1	20	80			soft
2	70	60			"
3	60	40			"
4	80	20			"
5		40	60		"
6		50	50		"
7		60	40		"
8			60	40	not very hard
9			50	50	soft
10			40	60	soft
11	20		80		soft
12	40		60		soft
13	60		40		very soft
14	80		20		" "
15	20			80	soft
16	40			60	soft
17	60			40	soft
18	80			20	soft
19	70	50			soft
20	50	50	50		fair

No.	Zebray	Blue clay	Zebray	Zebray
21	30	50	50	soft
22	40	40	40	rather soft
23	20	40	40	fair
24	10	50	50	fill down

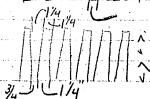
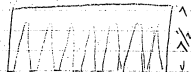
Fired kiln for $1\frac{3}{4}$ hours - heat was
too high as some bricks fused
and ran too much.

Run not satisfactory as some
binders that have given good
results before failed to work
this time.

Test run try combinations
of blue and white clay with
Zebray and some with a little
glass. Try base bricks of
combinations of cement & fine
clay (1 to $\frac{1}{2}$ to 1 to $2\frac{1}{2}$) and
cement & fine quartz $1:1$ to $1:4$

July 9 1902
Kulu Run No. 8

Fired two large bricks of
Edison One



Both to see if they would stand
up and if they would bake on
their bottoms.

Both stood up - Edison One with
clay - but neither baked on the
bottom.

In front of these large brick
will place brick of the form
described on Page 62 - each
set on a concrete brick whose
composition is given in the
Brick Machine book P. 6
One section of each brick was
Dunderland One with the following
binder - lbs. per ton

10	Yellow white clay	Blue clay white clay	Black clay white clay	Black clay white clay	Black clay white clay	Black clay white clay
1	50	50				7
2	50		50			2
3	45	45			10	5
4	45	45			10	6
5	40	40	20			7
6	50	50	50			8
7	40	40	20	15	12	12
8	40	40	40	30	13	13
9	60	40			14	14
10	50	40			15	15
11	60	40			16	16
12	50	40			17	17

1000

The conditions of kiln were same as previous runs. The fire was kept high until kiln was hot then lowest coal feed used until end of run - then $\frac{1}{2}$ hr. then $\frac{1}{4}$ hr. before opening kiln.

Large brick having flat top - set P. 65 - did not bake same as other large brick and neither baked as well as the smaller bricks.

Brick No.

- 1 Not very hard soft on bottom
- 2 soft
- 3 full down
- 4 soft on bottom fairly hard
- 5 Not very hard - soft on bottom
- 6 not very hard " " "
- 7 - fairly hard " " "
- 8 - " " " " "
- 9 - hard " " "
- 10 fairly " " " "
- 11 full down
- 12 fairly hard " " "

Kiln Run to 9.

Conditions of kiln unchanged. Placed in hear and four bricks of Edison & Dunderland One - one section Dunderland - of size & form described on page 62 - set on concrete brick described on P. 6 of Bricker Machine book.

Below are given the lbs. per ton of binders used with the Dunderland Br.

No.	Wedge	White Clay	Black Clay	Mud	Oil	Glass	Spices	Other	Result
1	50	50					16		Soft
2	45	45				10	18		hard on top soft on bottom
3	50		50				20		soft
4	45		45			10	19		Brick left outside
7	60	40					21		Not very hard
8	60		40				22		fell down because
9	50		35			15	23		cement bricks
10		60		60	20	24			pressed out from
11	40	40		40		31			under
12	40		40	20		32			them

Bricks nos. 5 & 6 were 24" long
 2 3/8" wide at top - 3 3/8" wide at base
 cord 3" high 14" wide at top 1 1/4" at base
 nos 5 were 1 1/2" apart & nos 6 were
 1 1/2" apart. Nos 5 baked
 very much better than nos 6
 nos 6 was very soft. Both
 were made of Edison Conc.

July 28 - 02

Analysis of Binding Materials
 used for previous Kila Rums
 for Phosphorous.

White Clay -	Phos.	.031%
Blue clay		.091%
Felspar		.082%
Wetland		.020
B.		.017
C.		.026
D.		.030
E.		.023
Flourish Clay		.210
Brick		.034
to 3 Mass Felspar		.107
Chaparral Felspar		.002
Yellow China Clay		.018
Pomona Felspar		.012
Alameda Felspar		.030
Pine Mass Felspar		.145

571

Continuous Kiln
Cover blocks were made of
the following proportions of
materials

AD.
cement
sand

1.	1	2	5	Coarse clinker 2"
2.	"	"	"	"
3.	1	2	4 1/2	" "
4.	"	"	"	"
5.	"	"	"	"
6.	"	"	"	"
7.	1	2	4 1/2	clinker 1 1/2"
8.	"	"	"	"
9.	"	"	"	"
10.	"	"	"	"
11.	1	2	5	Fine brick 2" <small>mult. on hot plate for 10 min.</small>
12.	"	"	"	"
13.	"	"	"	"
14.	"	"	"	"
15.	1	2	6	Fine brick 2" <small>mult. on hot plate for 10 min.</small>
16.	"	"	"	"
17.	"	"	"	"
18.	"	"	"	"
19.	"	"	"	"

172

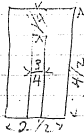
AD.
cement
sand

20.	1	3	5	Fine Brick
21.	"	"	"	"
22.	"	"	"	"
23.	"	"	"	"
24.	"	"	"	"
25.	"	"	"	"
26.	"	"	"	"
27.	1	3	6	Fine Brick
28.	"	"	"	"
29.	"	"	"	"
30.	"	"	"	"
31.	"	"	"	"
32.	1	3	4	Fine Brick
33.	"	"	"	"
34.	"	"	"	"
35.	"	"	"	"
36.	1	3	4	clinker
37.	"	"	"	"
38.	"	"	"	"
39.	"	"	"	"
40.	1	3	5	Fine Brick 1 inch long
41.	"	"	"	"
42.	"	"	"	"
43.	"	"	"	"
44.	1	2	4	"
45.	"	"	"	"

with fine dust screened out
with 200 mesh screen - all
under 4 mesh. This did
not have enough fine dust
to make a solid concrete - it
was porous

Kiln Run to 11'

Made base for large
bricks of standard
fire brick of following shape



Set in row in concrete made
of 1 part Atlas Portland Cement
to 1 1/2 parts sand

Base of concrete covered with
sand and clay for binders

77.	Yellow	Blue clay	White clay	Yellow	
10					
1		110		33	soft
2			40	34	soft
3	60	110		35	"
4	60		60	36	soft
5	60	110		37	fairly hard
6	60		40	38	soft
7	60	20		39	soft
8	60		40	40	very soft
9	50	80		41	soft on bottom
10	50		50	42	fill down
11	60	40		43	hard
12	60		40	44	with
13	60		40	45	fill down
14	60		40	46	" "

Large brick much better than
large brick of Run #10. - had
almost to bottom.

Kila River #12

78

Base for large bricks 2 ft.
large of standard size
brick ground 7 ft.

Set in 1 part cement
4 parts crushed fire
brick packed up and
1 part cement & 3 parts
sand.

Three large bricks of Edison
Conec. baked there to the bases
very well - fired furnace
for 2 hours.

The two mixtures in which
the fire brick were set, baked
and crumbled.

Briguettes of three sections of
Edison One mixed with glass &
clay and one section of Dundas
laid. One mixed with the Dundas
given on following page - placed on
bricks of cement mixture with
fine clay or white clay or blue clay or
lime sifted dry over their tops to
keep the briguettes from sticking
to the cement bricks.

79	Reinforced concrete	1/2 inch slag	Blue clay	glaze	Shrink age	Shrink age	Reacts on bismuth
10							
1	60	50		15	33	fine cast (F)	
2	60		50	15	34	fine cast (B)	
3	70	60			35	fine cast (W)	
4	70		60		36	double	
5	60	60			37	F	
6	60		60		38	B	
7	70	70			39	F	leached
8	70		70		40	W	soft
9	80	65			41	L	leached
10	80				42	F	soft on bottom
Large bismuth of bottom					42	conc.	good
11	50				47	B	crumbled
12	50				49	W	soft
13	60				50	L	crumbled
14	60				51	F	fair
15	80				52	B	leached
16	80				53	W	fair
17	60				54	F	leached
18	60				55	L	good

Cement Bricks Nos. 33 to 42 incl. had been used in Run No. 11 and were in good condition at the beginning of this Run. Nos. 33, 34, 35, 37, 38, 40, 41, were in good condition at the end of this run after having been used twice. Bricks

Nos. 47, 49, 50 which were new at the beginning of Run #12 were in good condition at its close and will be used in Run #13. All other bricks were spoiled by the Run. The cast iron plate used under one bismuth was melted down.

9-16-P2

Kilm River to. 13

In this run the furnace conditions remained unchanged - the impurities mix of the form described in Run 4.7. Page 62. Three sections being of Jackson Cove and ~~one~~ mixed with glass 58 and clay 1/2% and oil section of Deadhead. Oil mixed with clay and Zelepar as shown in the following table.

The feline were obtained from the Golding & Sons Co. of Freinton and the plays from Valentine's of Woodbridge, N.Y.

The cement blocks under the
bricks were covered as in the
previous runs with either blue or
white clay or fire clay or slacked lime
to keep the bricks from adhering.
The kiln was fired for ~~20~~ two hours
and five minutes - and opened 15
min. after stopping the firing.

[illegible]

A Groendal process briquette
received from Jas. Ballestrine
was weighed dry, then soaked
in water over night, the
surplus water wiped off
and the briquette again
weighed.

weight dry 7.73 gms
" wet 8.22 "

Water absorbed 4.9 "
or 6.35% of the weight of the
dry briquette.

Cement Tops of Cars.

Cars to

Mixture

1
10-1-02

1 part cement, 2 parts Fire Clay,
3 parts furnace clinker
crushed to about $\frac{3}{4}$ " mesh but
not screened.

2
10-2-02

1 cement, 2 fire Clay, 3 clinker
under $\frac{1}{4}$ " mesh.

3
10-3-03

See Buckner
Machine Book

Oct. 24 - 02

Rotary Kilm Run for a method of firing that will heat the back end of kilm hottest.

Firing with 120-100 lbs of air and highest rate of coal feed got hottest point about 2 1/2 - or 12 to 15 ft from the front of the kilm. Heated this portion of the kilm very hot in very short time.

Firing with as little air as possible - just enough to burn the coal without smoke - and highest rate of coal feed got kilm hot all the way to back end - no hot spot near middle - very even heat from fire but front front of kilm to rear end and very little smoke.

Firing kilm with highest rate of coal feed and 12 lbs of air

Nov. 17 - 02

2nd Run of Jamieson Kilm

Fired with slow coal dust fed at 9:45 A.M. - heated to red by 5:00 P.M. - gradually increased heat until following morning.

Moulded magnettes on cement bases and placed on Cars - used Edison Ore mixed with clay & glass in three sections of World & Dunderberg. Herculite in fourth section mixed with the weights per ton given on the following page of samples. The cars were moved this kilm at intervals of 10 min.

Firing of the cars to the sides of the kilm stopped run before last magnettes had reached middle of kilm.

87
 No. 87
 100 lbs. 100 lbs.
 100 lbs. 100 lbs.
 100 lbs. 100 lbs.
 100 lbs. 100 lbs.

1	60	40
2	60	40
3	60	40
4	60	40
5	60	40
6	50	30
7	60	20
8	50	30
9	50	30
10	60	20
11	50	30
12	50	20
13	50	40
14	60	20
15	60	40
16	60	40
17	50	30

place
 100 lbs. 100 lbs.
 100 lbs. 100 lbs.
 100 lbs. 100 lbs.

102	Good
106	Good
15 137	Good
30 108	Good
15 109	Fused
20 94	Fused
20 96	Fused
20 111	Good
20 120	Good
20 110	Good
20 113	Good
102	Good
103	Fused
100	Good
107	Good

Results as
 to progress

Good
Good
Good
Good
Good
Good
Good
Good
Good
Good
Good
Good
Good
Good
Good

Furnace trial of Feb. 19, 1903.

Run of Furnace like

Hot portion of furnace lined in sections of about five feet with one thickness fire brick leaving about 3/4" space between sections. These sections being laid after last run could not be bound to old wall securely and during heating up of kiln three fell in on top of bin case.

One car of briquets containing 16 groups of four was run into kiln about 13th when case became fast and could not be moved. Then coal was fed at top speed to get heat to this car. Fired hard for about 1/2 hour then shut down fire and cooled furnace. Briquettes were well baked there and seemed very satisfactory. In the following list Nos. 1, 4, 7, 10, 13, 16, 19, 22, 25, 28, 32, 35 & 38 were on this car. The other briquettes in the list were baked in the Rotary kiln fired for 2 hours & 15 min. They were not all baked to the bottom.

Briquettes Nos. 1, 4, 10, 25, 32 & 35 were sent to London by Messrs. Bledsoe & Pollen. They were analyzed here with

No.	Stationary Kiln	Stationary Kiln	Stationary Kiln	Stationary Kiln	Stationary Kiln
1	60				
2	70				
3					
4	60				
5	70				
6	60				
7	70				
8	60				
9	70				
10	70				
11	60				
12	70				
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					

Stationary Kiln
SK. Fair

all right - near front of kiln

SK. all right
SK. hard enough

but cracked

SK. Soft on
Stationary Kiln - top

bottom, some too hard on top
fairly hard - probably acceptable

SK. All right
SK. Rather soft

all there.

SK. All right

SK. Soft on bottom

and inside legs - hard enough on top.

SK. Hard enough

but somewhat cracked. near front of kiln.

SK. all right

cracked & cracked

SK. hard but

cracked & cracked

SK. Leaked, cooled & fell

SK. Leaked, cooled & fell

hard & fell apart.

SK. Fair, rather

soft on bottom & between legs, hard enough on top.

10	55	60	35
27	60	60	30
28	60	60	40
29	60	60	40
30	60	60	40
31	60	60	35
32	60	60	30
33	60	60	30
34	60	60	30
35	80	70	20
36	80	70	20
37	80	70	20
38	80	70	20
39	80	70	20
40	80	70	20

SK. Soft on bottom and between legs, not very hard on top.

SK. Rather soft on bottom & between legs, hard on top.

SK. hard enough.

SK. all right

SK. Cracked - hard enough.

SK. all right

SK. Scaled and cracked

SK. Not very hard

SK. hard enough

SK. all right

but scaled off

the following results:—

No. 1-	.033 %
No. 10-	.034
No. 4-	.040
No. 25-	.033
No. 32-	.034
No. 35-	.028

The concentrate from which these pigettes were made analyzed .027%.

It was afterward found that no dependence could be placed upon any of the above analyses.

Run of Tunnel Kilm May 1903

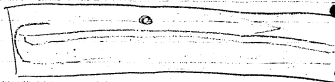
Kilm constructed in middle portion of red brick lined with 9" of fire brick with 1" air space between.

	Brinder	Pressure		
V -	Water	300 lb/in ²	Hand outside	apt. bottom
2 -	"	350 "	"	"
3	100° dry oil - 2 drops	4 drops	Hand shell	apt. inside
4	China bridle	300 lb/in ²	"	bottom
5	10% lime oil	"	"	"
6	1% oil	"	"	"
7	100° dry oil 2 drops	300 "	"	"
8	10° clay	5 drops	"	"
9	100° dry oil 2 drops	300 lb/in ²	"	inside
10	20° "	"	"	bottom

For 3 & 8 were molded in drop
puncher machine - all others under
hydraulic pressure - bricks 3" diam 1 1/2" thick

9' 10.5
60
105
420

12.5
65
30
60



80 rpm. of 2" drum

20 rpm of Mipex gives 60° per min
1 rev. gives 3°
Running 10 tons or 20 000 lbs per hr
or 333.3 lbs per min mixer would
have to run 111 rpm.

$$100^\circ = 1600 \text{ rev.}$$

$$33 \overline{) 1600} \quad \begin{array}{r} 48 \\ 48 \\ \hline 320 \\ 264 \\ \hline 160 \end{array}$$

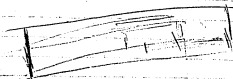
63) 2424 rev. deliver 100 lbs,
40 rev. per min

$$100 \text{ rpm}$$

$$60^\circ$$

$$0.2 \overline{) 2424}$$

$$\begin{array}{r} 48 \\ 48 \\ \hline 2 \\ 2 \\ \hline 0 \end{array}$$



**Edison Portland Cement Company Records
Plant Operations Notebook, N-03-00-00.2**

This undated notebook was used by Edison, possibly during 1903, for notes, calculations, and drawings. At the beginning of the book are notes regarding a humidor kiln, as well as drawings pertaining to the design of the cement plant. Several entries concern grinding, separation, washing, and conveyance. Toward the middle of the book are a few phonograph-related drawings. The pages are unnumbered. Approximately 25 pages have been used.

500 Cement

Old Kiln wt iron 272 lbs per inch length

" Load 9 " "

" Costing 66 " "

Total 347 " "

Weight in pounds per ft in length 4164 lbs -
flanges not included

Kiln for Humidor - 5 dia - $\frac{1}{4}$ 156 lbs per foot
Load 300 " "

5 flanges 4000 lbs each equals 200 " "

Total 656 " "

or $6\frac{1}{2}$ times less wt per foot

Old Kiln weight operating 624000 lbs

There are 14 bearing pair wheels

for 44571 lbs on each pair of wheels - more
on hot zone end

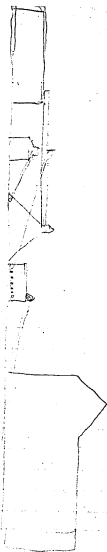
On Humidor kiln - 5 pair wheels 13120 lbs each pair

with 8 inch face & close grain iron in flange

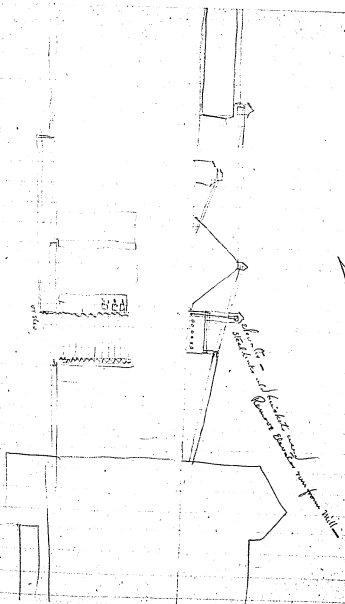
& chilled face 24 inch wheels - thick

twice over -

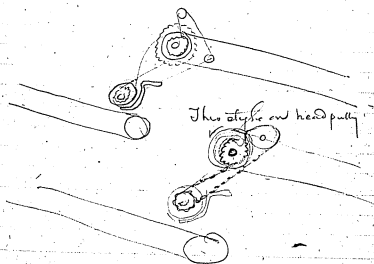
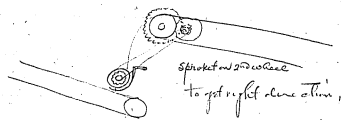
101



Why not use some of our steel
in fire spreader house -
using pneumatic chisels to
cut joints - roofing bottom
part over before we start,



Wheel delivery on all belts except 200-mesh
 + Cont —



Elev No 2 ~~Steel~~ links

Has 1 2 4 3rd 36 ~~4~~ Climber Con-
ralls get Hexagon ~~man~~ links

How about Cost unloading
Rth Conl -

Removal ~~ashes~~

Screw Conveyor Elev at
Chack ~~Eng~~ ~~Rich~~ -

How about more reliable
~~feed~~ chack -

How about Extending Chalk
Stack - to Double now ~~man~~
Capacity =

Loller bearings defective

Could we adapt Briteroll idea on this

If new wheel delivery works
why not speed up
109 & 110 - etc & also those in
fine grinder to 600 ft this
will raise ore from 750 tons
to 900 tons & no more will be
on belt per foot,

All heavy bells should
be driven both ends -

Can coal passers be dispensed
with by feeding coal from
pile to boilers -

~~Wind furnace~~
~~Charcoal Cupola~~
~~Chills - of every kind -~~

More Coal drying Capacity

Can Wheel delivery
to put under Racks

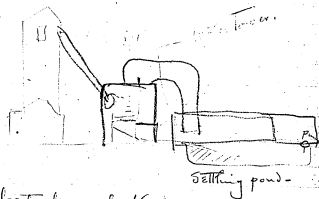
~~Expansion Clinker~~ Stock

Red Clinker Cows for 789410 Kilo

~~Special Oxle oil in winter~~
~~for Cars that don't freeze~~
~~Dahil~~

Can repair Cars & be done
underland Repair people have
better & changed one

~~Get~~ get full bag on car
 repairs - Costs etc & see
 where trouble is & how it
 can be remedied -



Velocity diminishes $\frac{1}{2}$
 after delivered on ground

If air laden with dust is delivered
 at the ground it settles at 1/10th as much

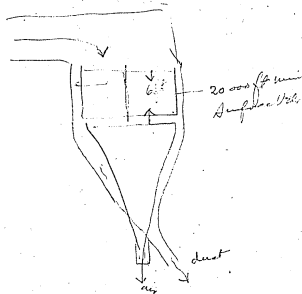
How about 4 ft Edison
Roll at Raub.

~~Don~~ May have got an other
men. bil - + got husky
plates to finish foot
size - Then we could have
done unloading of
D. 10 ft. which is a
Cari - foot smaller than
we'll probably permit &
also we could sell to
other cement ~~Don~~ who
size -

How about using
~~BYC~~ Nailer from ~~Edison~~
~~for~~ Raub.

md





Blow cool return coarse to
 a bag tube mill to remove
 double screw under
 with blow bin
 same air -

On dust - Spacing up the layers
of ore would prevent clogging -

Diminution 125 Cords per hr Coarse
at Duster -

Screw or ^{Duster} Receptacle 1

Duster Could make 1 tier for
Coarse distribute along
Whole of Duster -

Hand down Coal stock -

Expander 5000 ft guage
in Ball blower frame -

General shudders blown
Hous is -

Acc Cost Carpenter work
- mill -

Scheme working 4 days
Clean face with water
then blast then load
2700 tons of material
Should now etc
fig out costs this way
show utilize the man

grind Coal fines

By running only 9 days 12 hours
8600 bbls output 1200 8 mills -

Small use Cart

Idlers on heavy loaded belts
were very much quicker -
Spiders have broken -
Why do they break -

Cost bug in Mixing plant is getting
stuck to floor. When shut off
12 men average -

Wagon says 4 men ^{on shift} can be
ground in Blower Hu 101
by putting shaddlers &
Crew Canyon under 10 g -

McClenker Can. Says 3 men
on shift with shaddler &
Screen -

Water Storage big item -

180 181 Rotten drive

Washery for June 1894 —

1.3 Mills saving per bbl
per lb of Coal saved
in Kiln —

Chalky Kilns should be
got even

Savings

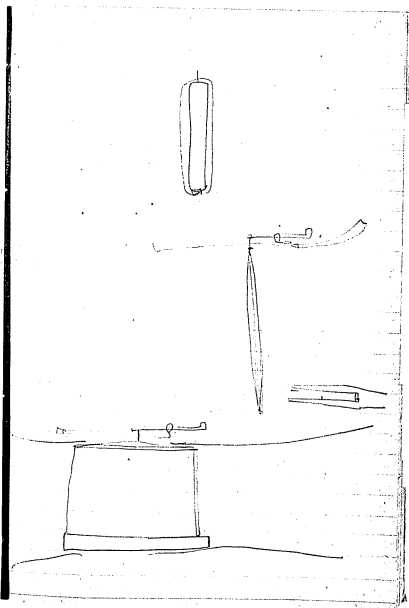
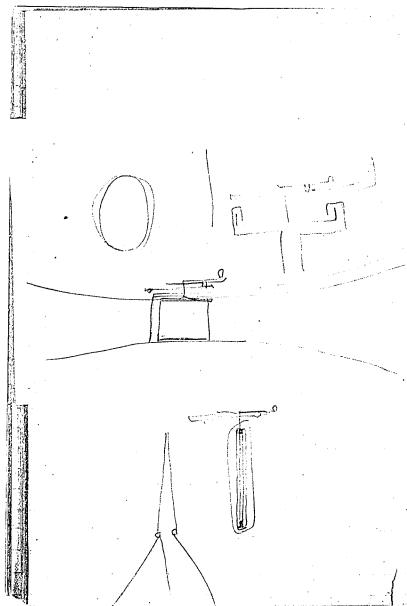
Crusher plant 1 shift 5,000 bbls	008
Saw cleaner Charles Chubers opinion	011
Steel shafts with labor	020
Pygman - Hummer & higher line	010
10% Reduction wages -	018
Sawing labor increase from 540 to 600 bbls	
4 better production under same time etc	036
Belt conveyor saving	020
Quarry time drawing out	100
General Repair at quarry - presents	020
	242

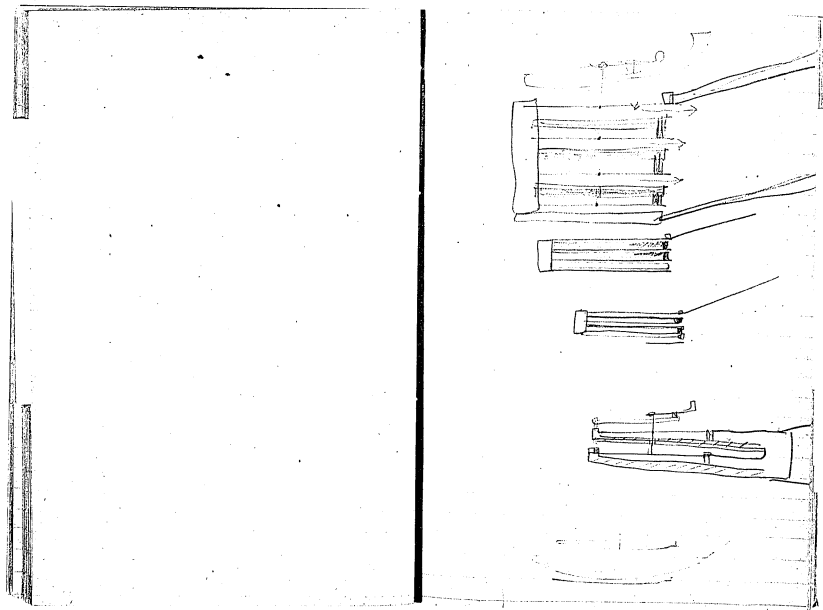
Possible -

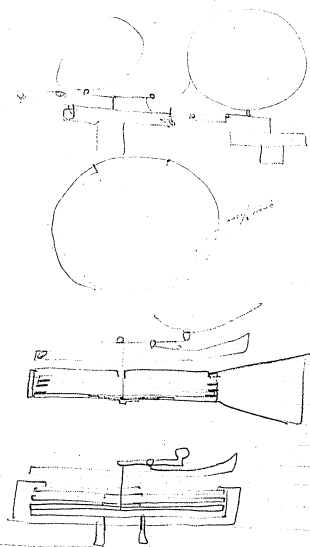
Saving in better confounding	0008
4 testing for friction	
Use Fuel in better 3000 vs 26400	0006

Oct 6, Costs, 71-

Reservoir Coaling ~







1st May be moisture in the green, causing flow.

2nd Pressure may have been at times less than $3\frac{1}{2}$ lbs on account of binding.

3rd The flake has caused from brittle, slightly thicker + full hydrogen + little bubbles with which good tubes were made to Joseph Smith. From which no good tubes were made + flake probably had more force in -

4th End plunger hardened + buffed some good tubes made -

1st It is not the KOH, as KOH of various kinds - have been used + the good tubes have withstood it. Not KOH.

2nd It is not the Green as 708 Big lot has been used right along - it may be varying moisture.

Not the Green.

3rd Not the pressure as that has been uniformly $3\frac{1}{2}$ lbs - but may be pressure not out line caused it.

Not the pressure.

4th Total Number Britches born the same - 10 of 24 -

Not the number of sections.

5th Size plunger not changed with + since good tubes - except hardened + buffed more.

6th Not $1\frac{1}{2}$ spiral + turned as good tubes made with them at least 20 ft 500 stories -

Not $1\frac{1}{2}$ spiral -

- 5= Rings have been fitted tighter
 6 Not the bars as they are the same
 Tubes have over 0.03 more inside diameter

7 The quality of the metal plating on tubes may have changed -

8 The angle of the dump been changed when it connects to tube,

9 Jamrod being out $\frac{1}{16}$ inch end of plungers not horizontal this caused them to move to one side or the other,

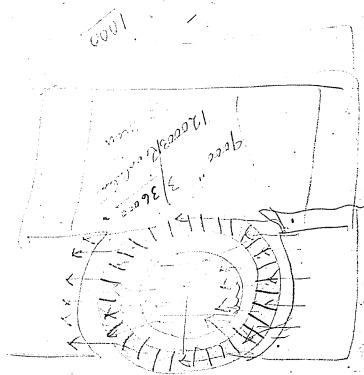
10= Good tubes made by decumpling green on of tubes & then letting both drop - this should be tried -

11 Why do the Brown tubes run over 1100 feet run on land after 2000 feet run -

7 Rings have been fitted tighter

8 The rate of charging has not been changed on the board but rate decaly been changed lately - but it has not affected good tubes -

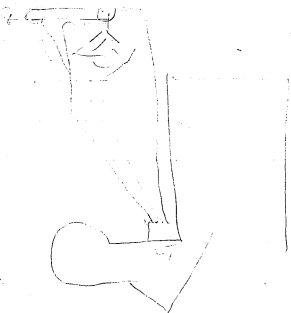
Not the change of discharge rate



32.0
 8.2
 23.8

27
 8.8

(8)

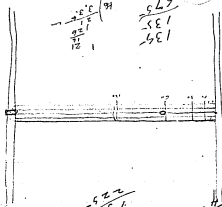


1/2 hour

1 amp 100-Volt, 100 ohms
 " 200 - 200 ohms
 1 amp 100-Volt, 100 ohms
 " 200 - 200 ohms
 1 amp 100-Volt, 100 ohms
 " 200 - 200 ohms

$$\begin{array}{r} 492.75 \\ 62.500 \\ \hline 555.25 \\ 132.25 \\ \hline 687.50 \end{array}$$

$$\begin{array}{r} 2.50 \\ 1.35 \\ \hline 3.85 \\ 115 \\ \hline 182.25 \end{array}$$



$$\begin{array}{r} 62.500 \\ 37.500 \\ \hline 100.000 \\ 40.000 \\ \hline 140.000 \\ 15.000 \\ \hline 155.000 \\ 25.000 \\ \hline 180.000 \end{array}$$

$$\begin{array}{r} 2.50 \\ 1.25 \\ \hline 3.75 \\ 1.25 \\ \hline 5.00 \\ 1.25 \\ \hline 6.25 \end{array}$$

$$\begin{array}{r} 21.35 \\ 67 \\ \hline 138.65 \end{array}$$

$$\begin{array}{r} 1.25 \\ 2.50 \\ \hline 3.75 \end{array}$$

$$\begin{array}{r} 62.500 \\ 37.500 \\ \hline 100.000 \end{array}$$

$$\begin{array}{r} 62.580 \\ 1.15 \\ \hline 63.73 \end{array}$$

$$\begin{array}{r} 1.82 \\ 1.35 \\ \hline 3.17 \\ 4.05 \\ \hline 7.22 \end{array}$$

$$\begin{array}{r} 62.500 \\ 37.500 \\ \hline 100.000 \\ 40.000 \\ \hline 140.000 \\ 15.000 \\ \hline 155.000 \\ 25.000 \\ \hline 180.000 \end{array}$$

$$\begin{array}{r} 2.50 \\ 1.25 \\ \hline 3.75 \\ 1.25 \\ \hline 5.00 \\ 1.25 \\ \hline 6.25 \end{array}$$

97c

32/6000/1095

32/310/997

3/1895/625

587c

32/6000/15

90/1000/15

425 ous
340-Ramb
636

1 cm-1 ft 6
1 m-c. 17.2 a

10 cm-1 ft 6

636/3410/536
3180
2380
1920
3720

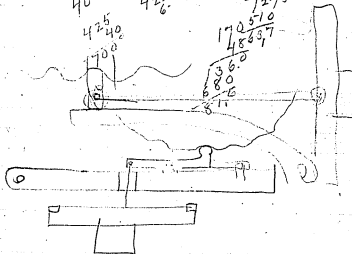
40
54
94
31
189-Ramb
87
87-103
65
4

341

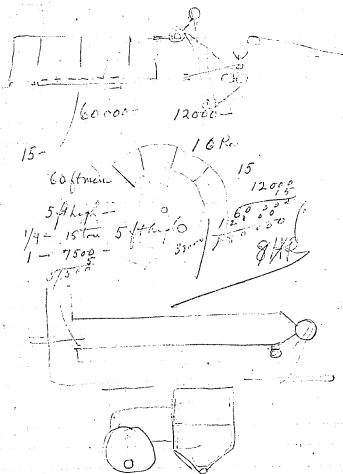
425
235
235

40- 425

170510
48637
360
80
16
81

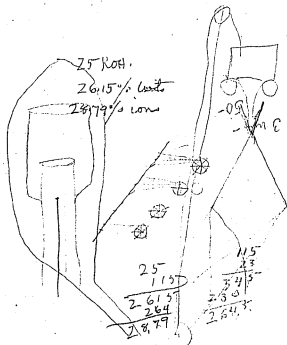
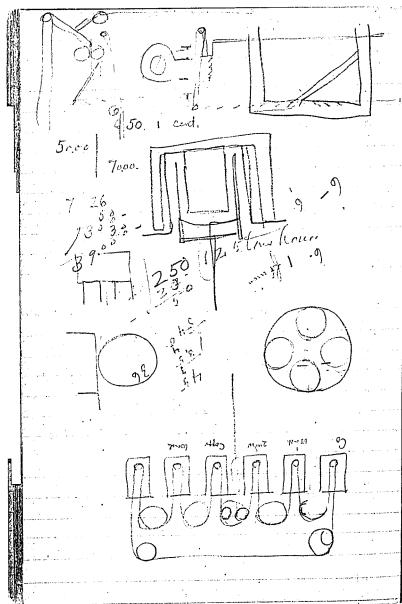


4-1-9



13
26
20

$$\begin{array}{r} 125 \\ 6 \\ \hline 385 \\ 70 \\ \hline 2695 \\ 2000 \\ \hline 695 \end{array}$$



$$\begin{array}{r} 4 \quad 21 \quad 230 \\ 23.3 \end{array}$$

$$\begin{array}{r} 230 \\ 23 \\ 68 \\ 468 \\ 529 \end{array}$$

$$\begin{array}{r} 21.00 \\ 5.29 \\ 26.29 \end{array}$$

**Edison Portland Cement Company Records
Plant Operations Notebook, N-04-11-01**

This notebook contains an undated entry by Edison on the first page. The remainder of the book was used in 1904 by draftsman E. J. Glasebeit, for drawings and calculations relating to construction plans. The front cover is marked "Simpkins."

Only the entry by Edison has been selected.

1 = Bad work made on 36 Beet
Conveyors - where 50 HP is put
pinion same size as 15 + cut
all to pieces.

2 = flexible - speak about Blowers

3 Not only are pinions on all our
heavy conveyors etc wearing
badly but they are breaking
showing that there never was any
factor of safety.

**Edison Portland Cement Company Records
Plant Operations Notebook, N-99-07-01.1**

This notebook was used by Edison for notes and calculations relating to operations at the Stewartsville works during the period July 1905-February 1906. The calculations detail plant capacity and losses in time at different stages of production. Included is information regarding the crusher and packing plants, the kilns, and the quarry. Other entries pertain to supplies, repairs, and the consumption of coal and oil. The front cover is marked "Cement." The pages are unnumbered. Approximately 60 pages have been used.

N-(99-07-01.1)

Loss of capacity at Crushing plant
due to following —
from July To Feb 196 Days —

Waiting for rock	123.0 min daily
Grants	11.8 "
1 st 36 Rolls	7.5
2 36 Rolls	5.4
3 36 Rolls	12.6
Hoppers	15.4
Car Hoist take up Dump	8.7
Engine Dr 01	2.6
Tracks Car trouble foot melms	3.5
Dryer 01	13.3
Conveyor 99	1.5
" 101	5.7
" 102	6.6
" 104	17.5
Changing Tapper	9.4
	244.5 min daily

Exactly half of this whole loss of
time is due to waiting for Rock.

The Quarry record shows that the average
daily waiting for Cars was 241 minutes
daily —

Crusher

194 Days -

104-36 Roll

Shims	301
Belt rollers (ground roll)	345
Belt shippers	83
Roller chokers	18
Pin - flywheel	16
Chain pin	100
Chokers	47
Repaired choker	18
Repair chokers	144
Choke Choked	10
	145

7.4 mm daily -

2nd 36 Roll

Shims	281
Pin roller belt shippers	70
Chain rollers	17
Roller chokers	40
Waste coming apart	167
Repair waste	66
Chain roller pin	20
New shipping rollers	365
Choke, Shims	34
	1054

5.4

104 Con 196 Days

Water Sloped	1174	✓
Belt Shipped	269	✓
Water burned out	265	✓
" Shred chks	37	✓
Belt gun (Repair)	523	✓
Repair Motors	43	✓
Churning piece hot	5	✓
Dropped chain broke	35	✓
Putting up belt	308	✓
Loose belt	10	✓
Piece blew	297	✓
Repair belt	159	✓
Put boards on chute	5	✓
Take boards off chuting	5	✓
Repair dropper	290	✓
Mount don't start	7	✓
	3434	✓

Hoppers -

Rock stuck in Giant Hopper -	2284	11.6	minutes
Hopper under Giant Choked	309	1.5	
Empty overflow Hopper	115	0.6	
Cleaning Hopper	68	0.3	
Rock stuck in feed Roll -	59	0.3	

are these stops duplicated in Giant records?

Evidently it don't pay to send up extra large rocks when cuz are pushed -

210 Days -

Loss time C. 111 -

Repair belt, O	7	minutes daily
Choking " O	4	
Belt slipped	3	
Stack, overload	2.2	
Taking up belt, O	1.2	
Motor -	5.0	
Shaft-Pinion breaker,	2.0	
Water belt-jack low, belt slipped on the belt	1.5	
Hopper blocked	0.9	
Fuses blew,	1.1	
Key shaft Drive bearing -	1.0	
Quadrant - 5	1.5	
Reaming 2nd S	0.4	
Log at 8" 11" 1	0.7	
Repair shaft 1	0.3	
" Conflow-chute	0.3	
New belt, O	0.5	
Repair Jack Rubber	0.4	
Miscellaneous	0.3	
	<u>33.3</u>	

Loss time in Chalk Plant daily
average from July to Feb'y 1966 daily

Engine # 102	12.3	min daily
Feed roll Byron	0.4	
Blower House	0.6	
Con 109	33.7	
" 110	9.3	
" 111	33.3	
112	5.4	
113+114	5.9	
	<u>101.4</u>	

This is average loss daily outside
of Crushing Rolls -

Crushing Rolls loss capacity daily

$$\frac{101.4}{147.9} \text{ minutes}$$
 Total - $\frac{249.3}{4}$ "

or 4 Hours + 9 minutes

Substituting Cables sheaves etc. of 2991.32
 leaves 3439.53 - leaves daily expenses
 outside belts \$16.38 -
 Repair labor daily 14.47.

Supply Chalk Plant. July To Jan'y inclusive -
 210 days -

		Daily	Miles per
Cables,	\$ 2934.10	\$ 14 00	
Roll plates	1720 54	8, 25	3.1
Miscellaneous	554 57	2. 64	1.0
Babbitt,	600.00	3.00	1.12
Bearings	118 11	.56	
Bushings	123 15	.58	
Motor straps	47 66	.22	
Wood sheaves	40 56	.24	
Transmission rope	78.62	.37	
Sheave bushings	26 00	.13	
Gudgeons & bearings	21 34	.12	
Pinion shaft	33.49	.15	
Spacing rollers	31 32	.14	
Sprockets	19. 10	.12	
Slop Rubber belting	10.33		
Plate bolts	13.59		
Sheaves	7 67		
Check Plate	10 40		
Wear "	14.79		
Wood sheave pins	13 00		
Roller chain	4.68		
Wires	2.89		
Con Brushes.	1.26		
Pinion bushing oil chain	<u>2 68</u>		
		Total 6430 85	
		\$ 30.62 daily	

Loss in Clinker Crusher Plant
Average of 176 days.

1st 36 Rolls.	19.0	min daily
2nd 36 Rolls	45.5	
Con 125	31.6	
Con 126	75.9	
Troj Elev	1.5	
Scraper-	10.4	
	<u>183.9</u>	daily -

Daily loss time in Cement grinding
Plant from July for 196 days

Engine H 803	11.3 min Daily
Coil 130	19.8
" 131	10.6
" 132	21.4 -
" 137	45.8 ← 26.8 due to drives mechanism burn?
138	6.6
139	6.7
140	2.4
143	1.4
144	<u>5.2</u>
	131.2 min Daily

Outside of time lost on Rolls -

Loss on Rolls $\begin{array}{r} 231.2 \\ 131.2 \\ \hline 362.4 \end{array}$ total daily loss

of Capacity

If drives mechanism ^{in 137} is fixed properly loss will
be reduced to 104.4 minutes

Supplies for Cement gr under plant 210 days

Cables	4633.47	Daily
Roll plates -	3651.60	18, 24, 7.6 hole
Roll shafts	1368.62	6.73
Miscellaneous	1256.06	5.98
Babbitt -	1305.43	not clear
Spacing Rods	1757.43	81.36
Bushings -	422.98	
Bearings -	294.46	
Structural steel Crutcher st.	219.00	
Drive Belt,	183.60	
Roll sheaves	228.24	
Plate bolts	179.33	Rotten
Wood & Rope sheaves	203.60	Rotten
Sheave bushings -	155.27	
S Dump Pulley	79.94	
24" 8 ply belt -	123.31	what this -
Tightening screws.	37.50	
Rope Wrepper Long	13.80	
Idlers	10.12	
Gears	20.00	
Pump shaft	27.08	
Gudgeons	9.12	
Gypsum screw	10.00	
Transmission Rops	87.48	
Water Drums	40.29	
Wood shaft pins -	23.79	
Coupling bolts -	51.88	Rotten
Check plates	28.45	
Rubber Diaphragms	10.50	
Wires -	5.18	
Sparks for samples	5.00	
Bushings for Drive Pulley	53.18	
Wear plates	1.74	
Paul Springs -	1.60	
Shims for turn up roller	2.62	

#16572.67
78.63 per day

Substrading 6811.91 - due to dispensing
with Rapid on rolls leaves, 9700.76.

Total -

Leaves daily Expenses 446.19 -
outside Conveyor Belts

Repair Labor Daily 45.56.

7863
124.19 - Daily -

But change to spring rolls should
reduce it - to 91.75 -

+ probably less for labor will be very
much lessened -

offset will be extra cost of Coal for
power -

Quarry

Loss average daily 196 days -

Waiting for Cars	241 minutes Daily
Cleaning Loading Truck	69 "
Moving Shovel	77
Shovel Repairs	32.9
Laying Loading Track	33.
Waiting for Steam	5.
" for Blasting	13.
" for Locomotives	5.9
	<u>475.8.</u>

This apparently leaves only 125 minutes daily to load. Apparently if Quarry works 10 hours - only one shovel at a time the record must be wrong.

Loss on RR Railroad

from all causes 1.8 minutes daily -

Changing to spring Rolls saves
56.4 minutes Reducing loss to
91 minutes —

No 1 & 2 Chalk Rolls -
Loss daily -

190 days.

Putting on & off plates 52 minutes daily - because roll was
running this cut down capacity plants to 26.0 min daily

Collars 7436 -	38 min total	19.00	"
Starting 873	4.5	2.25	"
Springs 3295	17.	8.50	"
Bushings 4009	21	11.5	"
Draw Kelly 1127	6	3.0	"
No one 5986 -	31	34.5	"
Shear Oiler 445	2.4	1.2	"
Girders 3077	16.	8.0	"
Coupling Nut 1012	5.3	5.2	"
Cables 3116	16.3	8.2	"
Shear 511	2.6	1.3	"
Choked 1900	10.	5.0	"
Belt 1600	8.4	8.4	"
Shcaots 1505	7.8	3.9	"
Bearings 6871	36.	18.0	"
Wear 2973	15.2	7.6	"
Hopper 482	2.5	1.2	"

143.8
143.7
143.7

The records in chalk plant are badly kept, for a long time no loss of time was given for putting on plates, Hereafter, want every minute accounted for in the 24 hours for each day in the month.

Between Jan 11 + 17th on Roll no 2 there is a lot of time no accounted for, this tends to make records worthless,

Clunker Grinder rolls-

Comparison of total losses

Coupling alline

722 1501
868 2
923 3

Cables

1473
1939
2446

Shearers

427
606
674

Hopper

527
745
605

Plates

5,686
11,875 → why?
5,397

Belt-

1105 → why
521 5
58.

Shenoes

517
4534 — wing
1387

Spacing Ribs

7692
3763
6898

Balks

192
664
000

Loose Plates,

120
90
841

Thrust Collars

1735
490
2205

Piston

25
100
000

Roll-	607
	000
	000

Bearings	2031
	3067
	1065

Retaining Plate.	206
	000
	000

Collar	26
	1640 — why
	000

Housing	112
	74
	172

Bushings-

22496 - why
11 341
1 110

Springs-

260
000
977

Quider -

4319
3030
5818

Pkg Bearings-

120
000
93

Starting

249
51
00

New Bush Jack Shaft.

1275
000
23
000

Choked

000
23
000

Shafts.

000
7486
13286

Welding Housings

000
000
153.

This is a total loss in 220 days from July 1st
to July 16 - of 672 minutes daily

or for whole Mill - 224 minutes daily

Chucker-Quinders

			Mill Time total Loss mins daily
Coupling	11.4	1/3 is.	3.8
Cable	26.6		8.8
Shearers	7.7		2.5
Nipper	9.0		3.0
Plates	104.3		34.7
Belt	7.6		7.6
Sheaves	29.2		9.7
Spacing Roll	83.4		27.8
Bolts	3.9		1.3
Loose plates	4.8		1.6
Thrust Collar	17.3		5.7
Bearing	28.0		9.3
Collar	7.6		2.5
Bushings	159.0		53.0
Springs	6.0		2.0
Grinder	59.8		19.9
Shafts	94.0		31.0
New Bush Jack	6		2.0
Various	7.6		2.5

223
6
231-6

Add Coupling & uncoup-

It is probable the loss of time of coupling & uncoupling should not be divided by 3 in the total.

There are probably other items that should be corrected same as coupling etc-

There was 343 items against the 3 Rollis -
 its probable that for each item the mill had to be
 shut down & started up - I allow 10 minutes
 for this which makes a total of 3430 minutes
 which in 220 days is 15 minutes, $\frac{1}{3}$ of which
 is 5 minutes -

As that loss daily plant	131.2
Rollis -	<u>236.2</u>
	367.4 minutes,

Or 6 hours & 7 minutes -
 out of both shifts,

Substitution of Spring Rollis -	
Saw, Cable.	8.8
Shavers	9.7
Spacing Rollis -	27.8
Grinder	19.8
Coupling and -	<u>5.3</u>
	71.4 minutes,

Reducing loss to	<u>296 minutes</u>
or 4 hours 56 minutes,	

It is probable belt time must not
be divided by 3 but the mill is down
the whole time for any Roll belt.
This will increase daily loss from
Roll drive belts to 7.61 - This
adds 5 minutes

This makes Corrected total of

Plant	131.2
Rolls	241.2
	<hr/>
	372.4

6 Hours 42 minutes,

Kilns - total loss. 1st figures Kiln 1 2nd Kiln 2
+ 50. on

Short Coal

$$\begin{array}{r} 6380 \\ 1548 \\ 12625 \\ \hline 4930 \\ 25483 \end{array}$$

Nosebrick

$$\begin{array}{r} 4535 \\ 3630 \\ 720 \\ \hline 4885 \\ 13770 \end{array}$$

Coal screw choked

$$\begin{array}{r} 60 \\ 00 \\ 00 \\ \hline 60 \end{array}$$

Heating up

$$\begin{array}{r} 435 \\ 195 \\ 195 \\ \hline 1300 \\ 2125 \end{array}$$

Chalk Screw-

$$\begin{array}{r} 2045- \\ 2005- \\ 125- \\ 190- \\ \hline 4365- \end{array}$$

Belts

$$\begin{array}{r} 190 \\ 80 \\ 35- \\ \hline 195- \\ 500 \end{array}$$

Idler Shafts

$$\begin{array}{r} 1285- \\ 430 \\ 660 \\ 120 \\ \hline 2295- \end{array}$$

Motor Draps

$$\begin{array}{r} 125- \\ 000 \\ 140 \\ 000 \\ \hline 265- \end{array}$$

Patching

$$\begin{array}{r} 3120 \\ 1050 \\ 1345 \\ \hline 4345 \\ \hline 9860 \end{array}$$

Chack Supply out of low-

$$\begin{array}{r} 17520 \\ 25870 \\ 23452 \\ \hline 24622 \\ \hline 91464 \end{array}$$

Shell Cracked

$$\begin{array}{r} 14205 \\ 0000 \\ 0000 \\ 0000 \\ \hline 14205 \end{array}$$

Stack

$$\begin{array}{r} 525 \\ 11145 \\ 590 \\ 2230 \\ \hline 14490 \end{array}$$

Bad Chunks Con

$$\begin{array}{r} 260 \\ 2035 \\ 000 \\ 75- \\ \hline 2370 \end{array}$$

Apron

$$\begin{array}{r} 2250 \\ 720 \\ 000 \\ 2995 \times \\ \hline 5965 \end{array}$$

Motor

$$\begin{array}{r} 2880 \\ 115- \\ 000 \\ 155- \\ \hline 3150 \end{array}$$

Relining

$$\begin{array}{r} 1440 \\ 2160 \\ 420 \\ 12435 \\ \hline 16455 \end{array}$$

Amortize of Cooler

620
000
000
000

620

Motor Chalk feed

40
00
00
00

40

Motor Coal feed

70
00
00
00

70

Tires-

0000
1440
0000
0000

1440

Lining Cooler

0000
3080
0000
0000

3080

Coal Ring

0000
3440
0000
0000
<hr/>
3440-

Total loss 225412 minutes
in 225 Days - or 1000 minutes
or 16 hours daily -

Dividing this in the 4 Kilns
gives average daily loss each
Kiln of 4 hours -

The method of keeping the record is
such that nothing can be got out
of it - Hereafter each Kiln must
account for 24 hours every minute
whether it is running or not - the
reason otherwise record is no
good & useless -

Conv 137-

Belt slipping -	12 items	358 min lost
Belt splines caught in S dump	2 "	555
" pulled apart at splines	3 "	92
" Ripped	1 "	305
" Repairing	5 "	374
" Taking up	5 "	487
" Fuse blew most due to overloads	27 "	715
" Tracking belt,	2 "	17
Hopper blocker	3 "	61
Ducts to B plant	1	19
Overload dust filter	1	20
Put on special Bble	1	47
Changing Motor	2	1270
Chg flex shaft drive	3	232
Shift Cent. " 1		50
Broken teeth " 4		492
Repair flex drive	1	240
New gear shaft drive	2	860
Shift broken		1930
Putting Chain on	1	55
Fuse broke	1	123
Chain Choked	1	12

5261 min lost
Conveyor
drives -

Strap brake -	1	Item	56-minutes
Switch burned out	1	"	76 "
Patching Hopper	1	"	22 "

Total loss 8469 minutes.

of this 5261 minutes was lost
by the troubles in the Motor & driving
mechanism.

While the belt troubles & other things
like fuses blowing from overload
Hoppers etc was 3208 minutes.

The bad show of this Conveyor was
due mostly to a Rotten drive
& I hope it is fixed but from last
record I think it hasn't & -
This drive has a horrible record,
Why do gear teeth break -

Conveyor Dept Costs, Material

210 days

Beltting-Con	12601	84	
Miscellaneous	8041	60	5
Leather belting	491	96	Rotten
Angls rubber	255	61	
Rollers & bearings	652	86	
Brushes on Con	300	66	Rotten
Sprocket chain	22	46	
Motor Straps	18	74	
12" Scrapers	87	49	
Bearings-	29	87	
Gudgones	18	26	
Bucket Con rollers	1	40	
Manila lagging	73	60	
Canvases	33	40	
Pinns	30	45	
Oil chain	1	83	
Pig Lead	2	12	
Labor Repairs-	484	12	
	15911	21	

\$75.76 daily-

225 day

Loss Time in Pkg Plant July 1 to Feb 15-00

Waiting for Cars	3759	minutes
Cleaning up Spills	3975	"
Big Bin Choked	1260	
Making Slide in Stock Hn-	770	
Moving Cement in Pkg Hn	1090	
Cleaning up Overflow Bin	1565	
Big Drive Belt,	575	
Taking up Pkg Hn Belt,	120	
Belt Skipped	120	
Cleaning Opall pkg Hn	475	
Cleaning Bogs-	1020	
Lower Screens Pkg Hn	70	
Belt off Pkg Mac	60	
Changing Belt on Cars	60	
Pulling on Belt, Repairing	105	
Belt of Screw Con	440	
Waiting for Ocs-	400	
Cleaning up floor	90	
Tying Screws in Pkg Hn	30	
Waiting Tests	140	
Cleaning Screws	60	
Roller at Shift	30	
Oiling hot bearing Pkg Hn	30	
Repair belt Banule Mac	65	
	15459	

Big Caesar

Broken-Digging Stick	4090	minus
Grudgeon handle	1125	
Drive Chain "	980	
Broken wheel-	660	
Conveyor out sides	530	
Motor	550	
Trolley	195	
Hanger broke	570	
Truck "	590	
Off track	505	
Bearing & splat chain broke	165	
Universal motor burnt out	300	
Motor trap broke	40	
Repair bolts for 145	60	
Repair frame	90	
Union broke	140	
"	115	
"	60	
"	30	
"	70	
"	485	
"	150	
"	590	
"	100	
"	95	
12685	minus	



3400

60.-

62.
35
312
3500

3/375
173
506

2170

27-27

$$\begin{array}{r} 65 \\ 32500 \\ 2170 \\ 1088 \\ 1968 \\ 3123 \\ \hline 393-3 \end{array} (149)$$

210 Days —

146 Snow Corv alongside Cement stock H.

Digging out Concreys.	22.60 min
Gudgeons.	11.70
Broken Hanger.	3.60
Repairs (waxing)	2.10
Connecting up	1.95
Motor three viz.	2.10
" Armature burned out.	1.35
" Solder melted	1.60
" Fuse blew	.90
Putting blank in	.60
Covering Corv.	.75
	<hr/> 49.15

136 Days - Round topped Nov
18

147 - Conveyor to Bagging House

Cleaning out Conveyor	770
" Tail pulley	235
Hopper	250
Drive belt brakes	195
Cleaning belt,	155
Drive shaft brakes,	300
Belting and pulleys burnt out	120
Strap brake	30
Belt shipped	90
" Brakes	120
" Ripped	25
" Cutting out piece,	105
Brushes on Convey	30
Proving split tail pulley	30
Tail and bearing hat,	30
	<u>2510</u>

Supplies for Kili July 1st 210 days -

Radial brick	603 38	
Nice	88 25	
Asbestos	211.65	
Water slide	86.48	
Coal feed screw	37.71	
Water pump	78.38	
10" Pipe cutting	45.30	Return
Pump	100.00	
Miscellaneous	874.68	
Coal pump roller shaft	52.28	
Bucket and Chisel C	22.98	
Aluminum	77.26	
Whisker Bucket C	42.00	
Coals Pockets	235.00	
Fire Pockets	66.50	
Bucket Crow-shaft	10.75	
Bucket - 11" -	30.09	
Friction chisel	15.86	
Cuttings	220.91	
Bearings	47.30	
Water Pump shaft	24.05	
Water pump	6.00	
Brick plate	10.20	
Chisel protect.	81.98	
Roll plates	344.82	
Spacing bearings	6.35	
Water Pump Pinion	37.42	
Gate B&C	39.02	
Shaft	18.45	
Jackets B&C	3.50	
Porter Gun blades	1.04	
Porter Gun blades	2.00	
Fill and filler gully	1.62	
Press bearing	1.58	
Press Cup	6.13	
Chisel Gun Chisel	12.22	
Bucket Crow-shaft	2.00	
Pinion Check shaft	2.00	

Return on 126 - 537.00
 Phosphoric Acid 4.91
 Lumber 1.75
 4043.83

19.26 daily

13
17
17

Supplies power plant - June to Jan'y inc 240 days	
Valves -	272.53
Oil Cocks.	5.26
Diaphragms -	6.00
Oil Cups glass	3.71
Fuses -	7.00
Miss rods	6.78
Gauge Stem	1.31
Door Liners -	255.56
Discs	9.24
Foot Head	2.50
Blinds	23.10
Storrs	235.00
Miscellaneous	2524.16
Grate Bars	435.00
Castings -	89.14
Valve Seats	8.92
Hook Springs	161.50
pair Air Cock	5.26
Trick	307.47
" Nose -	20.32
Turns Arches	194.50
Fire Clay	31.50
Boiler Tubes	305.50
	4671.26

Will this ever stop?

Any more what is it?

What's this -

	4671 26
Pipe fittings & pipe	81.47
16" Bell	110.57
Gate Rops.	22.42
Whistle	30.00
Piston -	90.00
Sight feed	17.24
Gauges.	13.60
Self Closing	35.29
Iron Springs -	6.00
Rings	41.34
Repair Bolts	589.84
Valves	62.64
rod Pump	8.64
door handles	6.00
Lubricator	1.50
Valve Springs -	2.75
Head Pin	24.71
couplings	9.00
Tin	94.00
Compressor	4.25
Collars	2.56
Wrenches.	7.50
Padlocking Valves	16.75
Power Engine	60.60
	<u>6009 93</u>

What's this

What for

	6009 93	
Gauge Cock	4.99	
Chain -	1.44	
Tube Expander	5.60	
Valve Springs -	3.93	
Floats	15.07	
Stems + Wheel	5.36	
Water Gear	280.30	9 9 What's this -
Broken Compound	360.33	Big -
Pencil bar	3.66	
C9 Baffle	15.98	
Screws	17.25	
Steam Hose	58.67	
Frank Pindlers	52.00	
Water Pump	2.17	7
Water set up	0.95	9
Hand -	1.57	6
	<u>6832.14</u>	3

\$ 28.46 daily

1000
0000

$\begin{array}{r} \text{Ans } 5793 \\ 4086 \overline{) 23682} \\ \underline{20520} \\ 3162 \\ \underline{2874} \\ 288 \\ \underline{2880} \\ 0 \end{array}$

15/02/2014

Electrical Supplies July to Aug Inc
210 days -

Starting boxes	446.00	is this present work
Carbon brushes	475.00	
Amper fuse plugs	10.09	
Camp Keel-fuse work		
Miscellaneous	1617.16	what is this
Arc Carbons	6.93	
Speed Regulators	326.00	is this a supply
1 HP Motor -	50.00	
Armature Pump Hn	382.00	is this an item
" Coils -	10.56	
Bearings Motor	23.38	
Grids	10.82	
Bearings -	15.00	
Motor Straps	7.66	
	<u>3380.60</u>	

\$ 16.1 daily -

3000000 day

2 to 1

6000 tons

3.
3/10000-day
3333-

7000
3000
21000000
10000000

Operating Labor for Repairs 210 days

Quarry	1032.01	\$ 4.91	daily
Railroad	2167.02	10.30	"
Crusher	1637.39	7.79	"
Mixing	694.30	3.30	"
Chalk Plant	3038.14	14.45	"
Kiln	4139.96	19.70	"
Clayton Gravel	9597.58	45.50	" load
Packing Shipping	7861.75	37.40	" load
Coal Grinders	2663.71	9.82	" load
Brown Plant	3148.24	15.00	"
Cold Storage	796.08	3.80	"
Conveyor Dept	484.12	2.25	"
Electric	3363.23	16.00	" load
	\$ 40443.53 -	\$ 192.00	daily -

Coal, ~~from~~ May to Jan'y incl - 270 days

	Tons Soft	qtrs Choc	Tons Baking coal	Tons Bene Cone	Tons
Quarry	1321				1321
Railroad	981	60			1041
Crushers P	481	256	65	62	804
Mixing P	468	256	65	62	864
Machines	394	178		2	574
Power Plant,	20268	558		4	21130
Kiln	22790				22790

	Tons
Quarry 234 Days —	5.64 daily
Railroad "	4.45 " 199 BP
Crushers "	3.7 " 250
Mixer "	3.7 "
Machinshop 270 days	2.16 "
Power Plant,	78.25 "
Kiln	84.50 "

Quarry	17.76
Railroad	14.01
Crushers	11.65 — 1.32 Cnts. for day
Mixer	11.65
Machinshop	6.80
Power Plant,	\$ 257.00 Daily Cost
Kiln	266.17

Oil - 270 days
Gals 81323. 301 gals daily -
Cost, \$2360 "

7.2 bbls daily this is Rotten

Dynamite.

Pounds. 234 days - 258 lbs daily
Cost 296 Daily -

Output 234 days - 861 tons daily - $3\frac{1}{2}$ c Ton

Car hoist & Dump of skip - 196 Damp Crusher

Circuit on Car hoist broke	56
Resistance box burned out	15
Cable on skip weight broke -	104
Chaining large rock	327
Skip would not clear -	21
Cable broke	87
Controlled fingers burned out	20
Tooth on gear skip dump broke	472
Rock stuck in skip -	22
Power wire on skip car hoist broke	49
Motor	10
Intermediate gear broke	227
Long bearing skip dump -	8
Circuit wire car hoist down broke	43
Cable pulled over drum -	24
" " from drum -	10
" " on car broke.	13
" " broken skip dump pulled off drum	7
Tooth broke - gear skip dump bent	215
Cable skip dump slipped -	6

1736

8.8 minutes -

472
227
222
919

No 1 Dryer 196 days -

Seneciochloa	783	
Heavenly mouth shaker	13	
Lo power on shaker fan	193	
Shaver fan blades worn out	600	
Two shaver pins in shaker	69	
Shaver on shaker	537	250 lbs. to cost of day
Water Drop Shaver fan broke	28	
Shaver fan motor blew	37	
Water brush holder broke	21	
Young baffles Dryer	206	
Artificial Choker	91	
	<u>2578</u>	

13.1 units daily

Emergellmucal 02 = 196 2-mp -

Screw on generator brake	90
Working on Engine	84
Generator - Belt slipped	103
" Belt run off	130
" Belt torn in two	353
" Repair	40
" New belt.	105
50 V generator Repair belt.	120
" Taking up belt.	162
" Belt run off	169
" Belt broke	70
Emergency fine shaft nutting, new one	460
Free blow switch board	236
Set brushes 500 V gen	10
Repair stream gauge	10
50 V Gen throw solder	17
" Cable burnt out	20
Bearing melted	111
Engine wheel stent.	135
	2425.

1203 minutes

109 Cows 196 days—

Fence blow	620	
Taking Crops off the wing	39	
let bearing (fox drive)	938	
Changing Motors	1735	} Driv 5262 minutes
Ornithine Ground out	1225	
Repair Motor	1250	
placing broken handle	75	
" " Idle	25	
Loose Clogged	108	
Belt taking up	223	
" Repair	10	all other (smaller) 1354 min
" Joiner 2 by hopper	137	
" Patching	31	
" New belt	178	
Repair gunny chock	29	
	6616	33.7 minutes

Cow 110 - 196 Days -

Coupling chain broke	105-
Mater Res Coil burned	25-
" New Guide holder	209
" Changing Armature	284
" Put brushes in	137
Bearings worn of Gen Drive	436
" Hatt	200
New bush bearing Coupling	180
Belt pulled apart	175
"	68
Inside Rubber Turn	29
Hopper Choke	20
Repair Coupling	55
	1926

9.8 minutes

Cow 112 - 196 days -

Taking up Repair Sect. 0	127
Twice blow	381
Repair Hopper	18
New Oil Chain	102
Broken brush holder, Motor	74
Overflow Chute	71
Hopper Clogged	45
Oil belt for 111 piston 0	119
Motor Connection	71
Repair guide Rocker 0	36
Piston Turnup -	5
	<hr/> 1049

5.3

Cow 113 & 114 -

Shovelling out saw	228
Regrind	90
Repair Saw	215
Twice blow	29
	<hr/> 1162

5.9

210 days

Con 126 —

Head Pulley Drive -	6670
Motor strap brake	130 ✓
" Pulley brake-changing -	225-
Replacing wheels etc	1863
Taking duckets out + putting in	2938
Rent shaft	85 ✓
Overhaul	15-
Oiling wheels	575-
Put Conpling on flex shaft	50 ✓
Replacing broken bushings -	430
Tightening up Con	290
Oil pulley stacks	280
New Callans on Drive bearing	70 ✓
Hot bearing	70 ✓
Pin loose on flex shaft	695 ✓
Tightening Collar flex S	190 ✓
Putting loose Callans on Con	530 ✓
New Pinion bearing	790 ✓
	15946

76 minutes each

of the 76 min 32 min due to drive shaft failure

Scrapper
Clinton Charles Grusher

Broken - repairing	710 ✓
Reps. tire	200 ✓
Made bushes burnt out	70 ✓
Tightening bars & scrapers	65 -
Straiten braces	55 -
Tighten belts	230
Fuse blow	25 ✓
Fuse wires grounded	80
Tightening - taking out links -	140
Placing Chipping of fly shaft	50
(Clinton Charles)	30
Car caught on rail had ground under bed	195 -
Straiten Jaws etc.	70
	1975

9.3 minutes
daily

Car 125

Bent shaft - broken wheel -	1165 -
Replacing wheels	3027
Wires grounded	100
Magnet burned out on line to Car	175 -
Fuse blow	30
Magnet grounded	30
Wheel burned out	220
Odling Gear	647
Jumped Track	355 - ✓
Broken fuses on Drive	65
Chipping hook track sprocket	25
	5839

27.8 minutes

Elevator Clinton Grusher

Fuse blow	75 -
Tighten belts	85 -
Replace broken bucket	95 -
Tighten loose "	45 -
	300

1.4 minutes
daily

Cmv No 130-

Repair belt.	2391.
New belt	347
Hopper blocked	149
Taking up Belt	130
Put on rollers	60
Pkg. "	48
Repair Hopper	15
Examining Drive bearings	85
Rect. Skiff	40
Taking off belt	60
With Burnt car	520
	<u>3845</u>

18.3 minutes.

Cor 131

Taking up belt.	57 1/2
Belt pulled apart	58
" New ---	235-
" Repair ---	247
Overload	57
Drives bearing belt.	259
" Changing bearing & shaft	215-
" New bearing & shaft middle	200
" left "	180
" Put Collar on shaft	58
" Re-co chain right bearing	60
Brush handles of Motor bearing	24
Repair Motor cones	20
Motor Strap cones	38
Repair Chain	10
Locks under Turnip idler	15-
Working Coal Motor	30
Wires & clew	54
Working Oiling, April 30	30
Putting on Wires	25-
Motor don't start	14
Hopper blocked	35
	2439

11.5 min daily

Con 138-

Hopper choked	45
Repair chute	31
Overhead	23
Putting on running bands	8
Plg, oiling, cleaning bearings	160
Taking up belt,	297 ✓
Belt slipped	65 ✓
" New	55 ✓
" Repair	134 ✓
Putting on running idler	75 ✓
Placing guide pulley	12
Chain & Pulley shaft	132
Chute choked	11
Feeder blow	102
Motor stop	73
	<u>1223</u>

5-8 Minute
daily

139+140

Repair idlers	795
Screw down chucks	335
" Choked	165
" Pulley screw	265
" Cleaning out	52
Feeder blow	80
Feeder chucks bearing	58
Overhead Motor broke	16
	<u>1786</u>

6.15 Minute
daily

Coal plant

Engine -

Break down	60
Bottom pressure	20
Fixing "	1010
	<u>1090</u>

Con 99 - chain broken on bottom idler -

Take Mills -	
Repair belt	270
Fixing belt	80
New belt	60
and old broke	95
hanging feed belt	20
Belt broke	65
and screw stuck	315
Take Mill stop broke screw	255
new work on loose	70
all choked	30
hanging feed	40
and belt bearing broken	25
and belt inflames "	50
and fine screens under rolls	30
and gear bearing	30
Rolls stopped on screw	130
Rolls in Galls	315
and broke	30
and fine screens	10
	<u>1923</u>

9.1 minute
daily

Carb. Rolls — 210 charge —

Rolls (new)	451
Shift belt	430
Repair fly wheel bearing	300
New Cranking Shaft & fly Hopp.	525
Tightening Rolls	150
Roll bearing Roll	35
Hopper Checked	45
Rolls Checked	150
Repair Roll pulley	385
Tightening belt on pulley	20
" " Elongate	60
Taking out & putting in screws	55
Putting on belt	120
Repair belt & gears & counter shaft	45
" B&H "	60
Cranking Chain broken	40

3011

143 mm
daily

Total losses all plants

		Daily Operating Time 1. 27.5	Can be reduced to
Quarry	475.0	1. 27.5	246.0
Crusher	244.5	6.14	157.3
Chalk	249.3	18.00	127.4
Kiln	240.0	20.00	156.0
Boiling	159.0	7.21	90.0
Cement Grinding	362.0	16.00	120.0
RR	1.8	0.0	0.0
Chalk Crusher	183.0	21.00	53.0
	19150.		949.7
	31.9 Hours daily =		15.8 hours daily

Quarry loss % of Total possible Time	80%	Can be Reduced
Crusher	44	46%
Chalk	22	24
Chalk Crusher	14	2
Cement Grinding	28	19
Kiln	17	10
Boiling	24	15

Remarks

Quarry - Enough Cars & skips must be provided so there is no waiting for Cars - We have 150 & it is possible that if we get a big capacity on we cannot supply ore for an average of 5000 bbls daily & may need 50 more Cars

A larger Motor should be put on No 4 & less drop in line - Machinery & exp has been done -

Better 10 rollers on Rolls in Crushing plant - bad delays here -

Don't send so many extra large Chunks to Quarry - Machinery takes us off an air drill something like a Riveter that is fine for 60 cks taking 12 minutes to cut each day on Effluent suggest to use Dynamite that Blue Rock be thrown out nearly as big as Limestone -

fan on ship dump are not
strong ^(1.6) wide enough for the
sudden extreme torques —

There is too much loss of time
from waste of power on exhaust
fan No 1 Dryer — I sup, and
this will be fixed when
new power plant is OK
also lost time on fan blades
Suggest an extra fan wheel
be made & fitted in Dryer

The flexible shaft drive on large
conveyors is the principal
cause of delay & something
must be decided about
what change shall be made
here — also Heavy Motors
are necessary on account of
Overloads & heavy starting
torque on the motor —

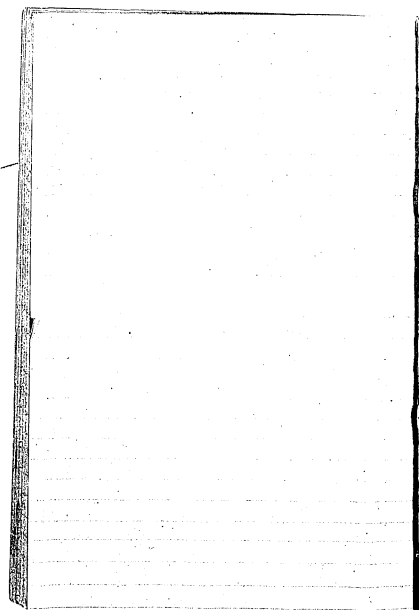
Suggest Shells & Bushings in
Link Wheels & bush it nuts on
for 125 & 126.

Quicker & more convenient means
for changing plates on
grinders —

Aprons fixed on Kilns

To much less time on
Generator Coal plant,

Suggest that to prevent Belt
wear very fine stuff be put on
Belt feeders Coarse stuff is
dumped on this will make
a great saving in wear



18.74
76.34
94
7.66
47.66
40.29
196 $\overline{) 191634}$ 9

**Edison Portland Cement Company Records
Plant Operations Notebook, N-99-07-01.2**

This notebook is a continuation of N-99-07-01.1. It was used by Edison for notes and calculations relating to operations at the Stewartville works during the period July 1905-February 1906. The entries concern plant capacity and losses in time. The front cover is marked "Cement." The pages are unnumbered. Approximately 60 pages have been used.

N-(99-07-01.2)

208) 800 (7

137
260
61
36
23
159
20 676

137
260

Cars stuck on ^{South} _{side} ^{of} _{the} ^{main} _{line}

Stems	Minutes
3	13
3	12
1	3
2	25
1	5
1	10
1	4
1	19
1	14
1	14
1	3
2	7
1	5
20	137

Cars off track

1	98
1	25
1	25
1	40
1	63
1	5
1	13
1	16
27	260

Cars struck foot & hand

Item		
2	8	
1	3	
1	7	
1	14	
1	19	
6	61	

Cars run over saw table

1	9
1	7
1	5
1	4
1	7
6	36

Cars refused to stop

1	7
1	5
1	4
1	3
1	4
5	23

Truck blocked with Collars

Item		
1	63	
1	62	
1	24	
3	159	

all proceed
loss 3.5 m

Uploading for Rock

157
125
133
160
238
113
180
140
602
243

3	199
2	157
5	150
3	110
1	220
8	78
1	170
4	74
4	162
1	7
1	75
2	17
3	54
5	61
3	327
3	210
6	173
7	156
3	201
3	254
7	261
2	145

Waiting for roots -

356	1246
285	1176
278	
406	425
161	346
542	649
739	524
817	679
527	603
676	318
1137	1300
749	582
988	434
1452	344
754	439
820	651
971	413
537	428
656	66
	711
	842
	305

13151

12497

10
11

600 1500 (2)

60 150 (2)
150
600

July 1st to Feb 1

|||||

26
208

40 13151
25648
24064 (6)

600 25648 (427)
24064
1584
4480

9 208 25648 (123)
208
418
79
268

Waiting Book -

Total loss 25648 -

208 working days -

loss average daily

123 minutes -

which at rate of 180 tons hour

3 tons min or

123
369 tons daily loss Capacity

All other losses do not
exceed 4 minutes daily
or loss of 12 tons daily -

CP waiting for -

72
41
63
64
56
22
51
37
50
45
50
28
32
36
41
59
48
12

809

208 809

Grants -

5
4
368
272
45
29
813
21
37
10
20
34
125
23
44
59
74
29
35
89
78
15
37
18
48
475
10

196 Days -

minutes lost

2324
196
364
1960
10.68
10.68

11.8 minutes lost
35.4 tons lost

|||||

26
17.4
19.8

2324

14
10

72647

1st 36

25

345

83

38

25

14

20

121

15

43

21

117

253

98

59

24

28

130

123

10

1472

196 day 1472 minutes lost
1392 7.5
1000
7.5 minutes lost daily
22.5 tons

8
6

2nd 36

132

86

47

64

30

22

227

17

85

58

52

61

63

33

14

363

34

1388

196 day 1388 minutes lost
1372 7.5
2120
7 minutes away
21 tons loose Caprope

6
7

$$37836 =$$

179
24
141
118
62
71
33
66
135
53
324
181
71
46
242
106
66
111
52
52
59
41
178
61

1964 pp / 2472 minutes lost

$$\begin{array}{r} 1964 \\ 392 \\ \hline 1772 \end{array}$$

12.6 minutes camp

$$\begin{array}{r} 12.6 \\ 378 \\ \hline 378 \end{array}$$

 time lost

9
11

2472

Oil table CP-

22
22
37
54
20
24
5
220

Hoppers in CP

144	43	31
16	322	
92	43	
18	47	
204	19	
173	24	
54	116	
112	276	
32	49	
138	312	
63	24	191
341	49	
47	38	
77	129	
1593	1491	

1543

$$\begin{array}{r} 1491 \\ 3034 \\ 1064 \\ \hline 1920 \end{array}$$

 154 minutes lost
 154 minutes day
 46.2

Car howtr skip dump

56	227
15	58
89	31
11	25
105	63
61	283
17	79
26	760
492	950
22	1718
122	1568
34	1482
950	1372

196) 1718 817

8.7
26.1 tons

Engine Room No 1

79
78
28
98
33
43
23
94
40
516

196) 516 (2.6
392
1240
1176

2.6
7.8 tons

Dryer No 1 - CP -

14
43
45
91
100
76
608
232
112
185
191
209
470
240
2619

196) 2619 (13.3
1969
650
391

13.3
39.1 *low cost*

Capacity 60 tons hour

Feed Riddle under Byon

20
50
14
19) 840 (43
740
100

4/10ths of ton daily

Chalk Hills - No 1 July 1

85-
363-
110
28
190
11
37

137
99
47
174

202
88

5830

2570

2438

41

730

424

4424

1427

365

1908

2998

558

1536

618

739

27789

196 / 27789 (minutes)
196 / 148
8349
342

141 minutes - at 30 tons bar
70.5 tons daily loss

1000 - 9 only found record No 1 Chalk Hills

12
12
9

Eng No 2

61

115-

157

178

107

90

63

60

460

58

246

124

111

75

41

228

58

389

63

115

85-

41

145

3070

10
11

196 / 3070 (106)
196 / 1388
1388
1388

60 tons bar
1 ton bar

15.6 average minutes per day
15.6 tons daily

Electrical Tools -

25
 80
 108
 316
 48
 56
 53
 51
 60
 90
 87
 1082
 153
 93
 45
 65
 25
 15
 120
 2576

7

196
 2576
 196
 648
 3280
 28

13.1, must. lost drive -

Blower #10 Blower

$$\begin{array}{r}
 30 \\
 23 \\
 4 \\
 12 \\
 17 \\
 21 \\
 \hline
 196 \overline{) 1118} \text{ (.56)} \\
 \underline{980} \\
 1300
 \end{array}$$

$\frac{1}{2}$ minute daily

Oil Syphon blower #10

less than $\frac{1}{2}$ minute
daily

1#36 Roller Churn C-

$$\begin{array}{r}
 75 \\
 110 \\
 65 \\
 70 \\
 165 \\
 205 \\
 90 \\
 65 \\
 35 \\
 125 \\
 95 \\
 1440 \\
 86 \\
 310 \\
 725 \\
 75 \\
 \hline
 3734
 \end{array}$$

$$\begin{array}{r}
 196 \overline{) 3784} \text{ (19)} \\
 \underline{1964} \\
 1778 \\
 \underline{1560} \\
 2060
 \end{array}$$

19 minutes daily

2nd 36 Rolls Chunks C

665-
310
240
490-
45-
20
125-
50
75-
70-
1225
2332
370
93-
1440
100
255-
725-
270
4
9
4
8932

196 | 8932 (45.5)
784
1088
944
1120

45.5 minutes lost
daily

Coalbrook Roll

340 425-
270- 57
100 125-
62 270
50
765-
430
100
115-
235-
525-
53-
50 3
3196 4

17.7 minutes lost
daily

20180 | 3196 (19.7)
140
1378
12180

Blower House NO2 -

40
59
103
52
45
75
19
59
196 | 454
392
628
388

Blowers only

2.3 Minutes lost
daisy

Engine NO3 - JH

4
13
63
83
26
75
202
70
529
221
98
617
61
71
43
26
8
2216

7
7

196 | 2216 (1113)
198
250
1960
600

11.3 Minutes lost daily

Baden Room ~

52
444
127
158
1613
440
422
997
3434
3821
4809
3143
1231
1135
539
356
1600
24295

445
4554
465
231
369
29
120
6217 3

124 Minutes daily

196 24295 (124
1989
462
392
324

Conveyor 101

87
11
13
235
22
231
31
35
109
35
87
107
95
15
1113

196 1113 (54
980
1332

5.7 minutes at 3 tons min
17.1 tons daily loss
to C Plant Capacity

Canv 102

9
5-
115
13
84
65
34
284
141
191
65-
63
76
37
116
1298

6
6

196) 1298 (16
1176
1220

6.6 minutes daily at 8 hrs
19.8. Daily loss to CP plant
Capex -

Can 104

40
94
16
162
151
209
262
508
83
52
54
649
340
84
398
155
140
45
3472

7
9

196) 3442 (17.5
1982
1460
1372
1

17.5 minutes daily
52.5 - daily loss capacity to
CP -

111 Cm -

576
670
22
329
377
264
419
23
130
72
504
130
633
9
170
63
75
181
141
913
545
170
161
117
38
18
6750

54786
6750
5580
11760
54786
363

36.3 minutes daily
36.3 tons capacity

10
11

112 Cm -

29
20
18
48
35
94
24
177
118
119
13
27
83
107
17
12
1059
4

194
1059
980
79
780
584

5.4 minutes daily
5.4 tons capacity

Cmo-126-

30
90
140-
45
570
60
270-
55
530
290
538
3545-
2465-
20
2290
225-
1015
150
1395-
1280
1140

16083

196 / 16083 / 82
588
403
82 minutes lost daily
55
1

101 Cms-

40
50
35-
95
45-
35
196 / 300 / 15
1950
1040
9800

1 1/2 minutes lost daily

124 - Chilled shoescraper

285-
245-
490
390-
25-
105-
120
75-
195-
20
70
20
2045

196) 2045 (10.4
196 856
10.4 minutes daily
loss to Chilled shoescraper

130 - 36" belt, Cement Crusher

136
61
58
25-
117
38
69
170
584
1336
610
36
526
120
3889

196) 3889 (19.8
196 1929
1929
160
19.8 minutes lost daily

Can 131

57
203
195
93
283
96
252
28
111
43
237
415
65
2072

196/2072 (10.6)
196/1120
10.6 minute lost day

132 -

284
270
323
39
1044
354
118
33
265
121
722
27
45
41
421
54
38
4199

196/4199 (21.4)
3927
7268
83
21.4 minute lost day

Can. 137

171
445
863
127
92

408

87

84

1270

55

81

520

158

1027

280

153

2012

31

80

73

90

136

747

8990

14

5 Dump Blower

196/8990/458
7840
1120
940
17

45.8 minutes lost daily

55

138 - Tunnel Blower H#02

33

100

53

38

44

48

75

102

78

56

125

32

35

26

316

69

73

1303

8

7

196/1303/66
11960
127

6.6 minutes lost daily

139 - screw Cam Brown H

151
349
157
422
80
57
57
58

1331

196) 1331 (6.7
1196
1352
1372
1780

6.7 minutes lost

140 - screw - Brown H - No 2

12
280
16
24
3
138
473

196) 473 (2.4
392
810

2.4 minutes lost

Con 143- to Cement Skk H,

64
30
60
60
15
53
282

196) 282 (14
196
86

14 minutes out

144 Handta Cement Skk H,

60
172
255
80
262
124
45
1028

196) 1028 (52
980
48

52 minutes out

Engine bulb plant
Waiting for speed -

76	60
84	73
64	41
44	33
47	58
46	60
54	207
26	176
21	240
68	103
16	143
12	92
18	104
41	208
15	62
13	125
50	135
64	119
99	

LF

1905-

Record missing

128
89
91-
165
56
92
58
35

Car 99-

16
 25
 8
 18
 77
 52
 19
 44
 41
 196 | 300 (15)
 1920
 104

1 1/2 minutes loss capacity
 Cpl. Hunt

Changing Tripper RP-

104
 92
 87
 196
 32
 34
 112
 43
 38
 55
 467
 152
 27
 38
 46
 33
 52
 19
 68
 158
 1850

196 | 1853 (9.4)
 1764
 890
 9.4 minutes lost
 Changing Tripper
 Chas. Hunt

Can 190

$$\begin{array}{r} 89 \\ 80 \\ 424 \\ 185 \\ 84 \\ 421 \\ \hline 1263 \end{array}$$

$\frac{1283}{1176} \div \frac{107}{107} = 1.19$
 1.19

~~1911 Conto~~
Quarry -
Waiting for Car
112

430	1830
785	2970
460	1535
150	1975
850	2265
430	1875
640	2515
600	1400
375	<u>16665</u>

$$\begin{array}{r} 29446 \\ 244 \overline{) 29446} \\ \underline{244} \\ 504 \\ \underline{488} \\ 160 \\ \underline{122} \\ 380 \\ \underline{372} \\ 80 \\ \underline{77} \\ 30 \end{array}$$

29446 (244)
 244
 504
 488
 160
 122
 380
 372
 80
 77
 30

241 minutes lost
 daily

July 1 Dec 18-
1111
26
104
122 days

Quarry

Cleaning (ending track)

130	450
590	430
590	443
510	220
450	490
330	170
680	500
550	310
110	480
670	310
540	170
250	500
120	
620	
270	
500	
270	
110	
290	
440	
9080	

$$\begin{array}{r} 9080 \\ 196 \overline{) 1796} \\ \underline{1568} \\ 2280 \\ \underline{1872} \\ 4080 \end{array}$$

69 minutes lost

Quarry

Moving Shovel


190	650
190	450
290	580
310	460
420	927
600	1020
340	500
440	470
330	310
340	770
350	6742
360	
350	
610	
570	
700	
1050	
310	
212	
450	
8369	

$$\begin{array}{r} 8369 \\ 196 \overline{) 16742} \\ \underline{1568} \\ 1056 \\ \underline{952} \\ 1040 \\ \underline{952} \\ 880 \end{array}$$

77 minutes lost

Delays RR

overweight	Car off Rail	Haystack	Derails	Struck by Car
5 7 4 <u>4</u> 20	12 40 63 5 <u>13</u> 16 <u>149</u>	6 <u>6</u> 12	6 <u>6</u> 12	23
Carried Crops	Struck by Car	Congested Tracks	Cars stuck	Animals pulled out
9 <u>9</u>	4 <u>4</u>	24 15 10 28 6 <u>103</u>	3 18 25 19 <u>76</u>	9 <u>9</u>
	Drill <u>12</u>			Car stuck on track 15 7 <u>22</u>
18 179 178 37 <u>373</u> 19				

[illegible]

[illegible]

Oct 3 to Oct 13 No 1 netting 10 clump
New burdop -
from Dec 12 to Dec 19 New burdop - 7 clump
Dec 22 to 26 " 4 clump -

Chack

-666

Loss daily			Hours		Hours	
Chack	7	150	244.5	4.4	157.3	2.36 min
Chack		400	249.5	4.9	127.4	2.7 "
Chack Center		50	183.0	3.3	53.0	53 min
Count of center		250	362.4	6.2	120.0	2.00
Quarry			475.0	8.0	246.0	4.6
RT			1.8	1.8	0.0	0.0
Rib			240.0	4.0	56.0	2.36 min
Pig						
			127.0	2.19	95.9	
			10.15	31.9		

60
19 15 0
18 0 5
1 6 5
59

60 959.7 (16.
60
357

CP. Winding Rock 123.0
Okay the Dunny 6.7
Bryson 3.0
Quinn & Hopper 11.6
Bird pond 13.0
157.3

Quarry - Enough Cars skips so there is no
waiting for Cars - will have 150

Crushing Plant.

50 or greater HP Motor on No 4, and less
drop of V belts on line,
Stronger chain & less repairs on trippers

1 2 & 3 36 Rolls, better Wabco's.

Does send so many large chunks from Quarry
12 1/2 minutes lost every day from this cause
alone, or 7 skips daily -
gears on skip dump not strong enough -

See that Exhaust fan at Crusher always
has power and also that the fan blades
are renewed at if will time by having it
done right, or use of an extra wheel -
4 minutes lost daily - Extra wheel best
- 50 rods at Crusher -

Have sufficient skips & Cars so will never
wait for Rock. 123 minutes saved daily
which at 180 tons hour is 360 tons increased
output daily -

~~Chalk & Paul~~

Flexible shaft, Drives + head drives generally
Shafts - pinion + bearings of heavy Conveyors
Too light + Cause lot of delay -
Should be changed.

New rolls in Chalk + Clinker Grinding
Large bearing surfaces, plenty oil -
Wider drive/belts - No shear pins -

Chilled bushings on wheels + on shaft.
125 + 126 Conveyors -

132 Conveyors put in new way -

Big Cessors taken out + fixed screws
put in -

Quicker + more convenient methods
devised for changing plates on fine
grinders -

Aprons fixed on kilns =
Too much loss time on Generator Coal plant.

from studying belt wear, I think wear will
be greatly diminished if very fine stuff
is first put on belt before coarse stuff
is dumped on -

feed screws tube will stick, plug & break
too much,

**EDISON PORTLAND CEMENT COMPANY RECORDS
PLANT OPERATIONS - POCKET NOTEBOOKS**

**Edison Portland Cement Company Records
Plant Operations Pocket Notebook, PN-01-00-00.1**

This undated pocket notebook was used by Edison and an unidentified author for notes, calculations, and drawings relating primarily to prospectors' surveys in the vicinity of Stewartville and the analysis of collected samples. Included are notes from surveys conducted by Edison and Francis R. Upton. Most of the drawings are topographical sketches. Near the end of the book are notes and drawings pertaining to blowers and oil feeds. The front cover is marked "Pass Book." The pages are unnumbered. Approximately 40 pages have been used.

9 W. line Cement 297 acres
farm plot over creek $\frac{16}{43}$

Record of the Long Assay line
of holes across the property
of Samantha Cobart at the
old lime kiln

Hole 100 Volomite Dip meridian

101 " "

102 " "

103 " "

104 " "

105 " "

106 " "

107 " "

Between 107 and 108 into
near the large outcrop


Two samples were taken of
this outcrop of rock - one
was on the west side
was thus marked. The
other was on the East side
and nearly on top. It
was also marked but

side sample Carhart
outcrop same Kibler.

Hole No 108 not being
deep enough to get the
blue rock as it was first
understood was wanted
the men went deeper
and got fair samples
of blue rock.

I did not measure
this hole as to depth
on the stripping sam-
ple was taken how-
ever, one only I
believe and marked
Hole No 108

Hole No 108 continued
The dip of the rock is
about

EX  → W dipping East

Si	al	Fe	Ca	Mg
7.44	1.77	1.38	85.28	2.18

as this hole is within 6 or
8 feet of the outcrop
being West of it, it should
show limestone, but it
is in very thin limestone
and resembles cement rock
rather than limestone

12 ft from top

Si	al	Fe	Ca	Mg
12.73	5.58	2.67	74.21	3.80

Hole No. 109 was located
the same as hole No. 108
and sample taken. The
laminations appeared
to be about the same.
The dip was a little
less angle than hole
No. 108

I did not myself take
sample 109 or measure
the depth of hole or the
stripping

Hole No 110

Sample taken from this
hole it was not down to
where the rock was so
like as Nos. 108 and 109
did not sample it my-
self. The dip was toward
the East and at a higher
angle

E  W

Should say it dipped
45°

Hole No III

Sampled by myself about
9 feet deep. Dip 45°
to the East

Take samples
along the dip.

Stripping 3 feet before the
bottom rock can be reached

No. 1 sample is taken about
1 foot below the stripping
line

Sample No 2 middle way
between stripping and
bottom sample

* 3 sample nearly at
bottom

* 4 sample was taken
from the bottom

Remarks

None of the samples taken from holes 111 to 124 are fair samples of the real rock because they are very much weathered and leached out and have clay in the cleavage seams. Of the many thin laminations composing the rock some are very much decomposed the limestone leached out while other laminations are hard, but even these have nearly lost their blue color.

There are also many places where a certain lamination is entirely leached out leaving only pure clay.

One or two places
in the halves show seams
1 to 2 feet wide the
whole depth of the hole.
One particular hole
shows the whole of the
strata on one side
leached out leaving
only the clay.

Hole 112
Depth 21 feet 9 inches
Depth of stripping 4 ft.
This hole had a clay
seam one foot
wide.
3 samples were taken
from this hole top
middle and bottom
marked 1-2-3
Dip is East about 45°

3rd Sample

Si al Fe Ca Mg
22.52 5.96 2.28 62.32 0.28

Hole No 113

This hole is 12 feet deep

3' 14" 5'

Bottom

all sample taken
on West side of
hole

No. 1 sample taken one foot
from surface, No. 4 sample
from bottom, No. 2 & 3
at intermediate points.

There is also a clay
ream in this hole $1\frac{1}{2}$
feet wide reaching
from top to bottom
dipping some angle as
shown which is 45° deg.

Nov

Sp	at	Fe	Ca	Mag
1617	7.33	1.74	71.5	24

Hole 114

This hole 12 ft 6 inches deep. Stripping 3 feet angle of dip $\nearrow 35^\circ$ dip slope towards east.

Rock shaly and down-fragile. No 1 sample 1 foot from stripping No 4 sample at the bottom. 2 to 3 taken at intermediate points

No.	al	Fe	Cu	mg
1727	8.47	2.	69.24	0.25

Hole 115

8 feet deep only one sample taken at bottom. Rock ill defined, much decomposed. Cant say as to dip.

Hole 116

Depth 15 ft. 6 inches
stripping 5 ft.
Four samples taken.
No. 1 within foot of stripping line. No. 4 at bottom. Nos. 2 & 3 at indeterminate points.

Hole No. 117.
18 feet deep. Drifting
4 feet. Rock fairly
good, not blue. 3 amm-
plus taken as recorded
but think 4 were taken.
They were taken in the
same manner as all
the other holes.
The dip is clearly
perpendicular.

Hole 118

12 feet deep. Stripping
5 feet

Rock quite shaly
and rotten

3 samples were taken

No. 1 Top

No. 2 Intermediate

No. 3 Bottom

Dip perpendicular

Hole 119

Depth 9 feet

stripping 7 feet

Only one sample taken

only sample

Si	Al	Fe	Ca	Mg
13.14	5.50	2.30	45.66	12.1

Hole 120

Depth 18 feet

Stuffing 9 feet

five samples were taken

No. 1 at top No. 5 at

bottom other intermediate

Get ship

Hole 121

Depth 11 feet

stripping 4 feet

3 samples No. 1 top.

No. 3 bottom No. 2 into

midnight

cut the dip.

Hole No. 122

Depth 26 feet 6 inches
Stripping 6 feet

4 samples marked
but I think there were
8 taken as ~~the~~ in the
other holes. The rock
is fair in this hole.

No. fine as it is some-
what decomposed. It is not
as thinly laminated as
in previous. The trend
seems to coincide exactly
with a line between the
valley mountains.

Drill H. 5

68 to 75 ft. Chaps

1923 965 6289

Hole No. 123

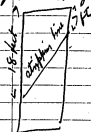
Depth 11 feet

stripping 4 feet

Rock rather rotten &
shaky. 3 samples were
taken in usual manner

224 Dal
 225 1455 557 76.50
 226 Bat 462 251 91.22
 232 310 195 92.22
 233 Dal
 249 Quarry
 Drill hole 5
 Core 57 to 63 ft.
 17.07 9.00 65.55 53.74
 Core 63 to 68.
 9.30 561 80.99
 68 to 76 ft
 12.74 746 72.44 58.5
 Chips Drill #15
 50 to 57 ft chips
 18.84 1163 61.39
 57 to 63 chips
 16.65 1286 61.17
 63 to 68 ft chips
 10.97 733 77.28

Hole No 124
 Depth 21 feet



This is evidently the side
 of a decomposed pocket
 at hole 3 samples
 are marked as taken
 on my back but think these
 were from. They were
 taken in the usual way.
 get dip.

237 4.72 38.1 91.41

238

241

242 } Dal

245

246

243 10.53 4.70 "strip"

" bottom 6.40 2.31

79.70

86.24

Drill Hole 3 114 ft

" 1869 1034

67.87

" 94 ft 106 ft 2.44 6

1880 986

67.37

" 106 to 114 1/2 332

1697 824

68.38

" 114 1/2 to 119.2 351

1987 1175

63.51

119 to 121 -

1681 976

69.30

12 to 126

1796 964

67.77

Hole 125

Depth 7 feet

stripping 4 ft 6"

Only one sample from bottom and this rather weak.

Hole is not deep enough

Hole 231 Bottom

9.49 754

ca

82.92

230 bottom

6.36 620 86 67

234 Bottom Delmudi

235 5.38 526 87 92

236 6.59 483 87 16

238 Dal

248 Dal

216 1724 903 68.10

220 Bot 3.83 244 89.04

9 isolated outcrop samples taken by Upston & myself -

Sample OCS No. 1

is the first outcrop from
the private cemetery on road
towards Slawsville -
paced off it is 300 ft.
to corner of graveyard

OCS means Outcrop
Stewardsville -

QCS No 2

10. first outcrop goes on
RR in cut going SW and
~~two~~ ~~high~~ ~~flat~~ perhaps 50'
@ 100 feet beyond the point
where RR curves



1/2 of the
Sample is from Right hand
side yellow after 1/2 from left
hand side 200 feet from
young towards East
angle of dip $\approx 45^\circ$ to 60

God day day

Shipping beyond a large amount
is certainly 30 feet
to RR tracks how much
further cant say

OCS No 2

This sample is the 2nd outcrop along RR going to Euston & beyond the 2nd road under RR, showed that it was 1200 feet beyond its within 50 ft. of a white part on right side of RR going toward Euston. Right in center of cut dip is 50 deg about SE.

It is the outcrop which shows an apparent junction between Magnesian limestone & Carbonate, Sample 3 is lower part next track & appears to be Magnesian

OCS No 4 is the

upper part of outcrop & appears to be Carbonate or Cement rock.

This sample is a continuation of OCS 3 -

It is 100 feet beyond the 2nd road toward Euston (rock is 100 feet) (cut is in the road) under it -

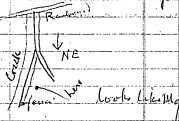
Sample 2 is 5 feet

NE from this road

under track

OCS No. 5 is an outcrop
~~on the bank of the creek~~
 on the bank across the Creek
 you go on the Calhoun road
 under RR then about 5 or 600
 feet on the road you look
 across the Creek 12 to 1500
 feet at right angles to the
 road. To the left there
 is the outcrop
 look at front 2 outcrops
 25 ft apart —

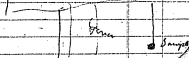
OCS No. 6 is outcrop



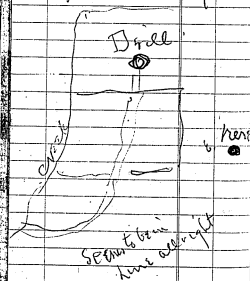
OCS No. 7

on the road thru the field
 from creek going to S side when
 they show water

D. B. ell



807 OCS
The outcrop is
just under a tree along side
the fence

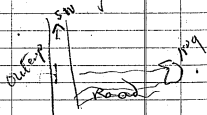


808 OCS
Outcrop on Hughes
property - about 80 ft
back of hole we got
permission to put down
This hole is on brow of hill
in line with the holes
across Cahart but the
outcrop is 300 ft about
South W of the Hughes
1st hole
There is 2 outcrops but the
is lost one nearest
R.R. about SW -

O.C.S.

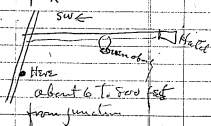
N^o 9 is outcrop beside
a limestone 5 or 600 feet
from Hotel at Glenwood
going S.W. its on the
right hand side &
say 1/8 @ 1000 feet from
road - Dip 45° to 50°
dip massive cl. pbb
Mag -
Dips to SE

On the road exactly
across from outcrop
C Road Crops cut



O.C.S.

Sample 10



its pbbly Mag Diagram

Should show road on left
right side instead of left

103, Cahant 17000.

This is the second line
across Samantha
Cahant's property
behind the grave yard
across the Railroad.

Hole 126 starts at the
fence near the Railroad
9 ft 6" deep 2 samples
No 1 near top No 2 at
Bottom stripping
4 ft 6"

Hole 127 advancing
toward the graveyard
16 ft 2" deep
stripping 14 ft 6"
One sample taken at the
bottom

Hole 128 advancing
towards grave yard
12 ft deep stripping
4 ft - 3 samples
No 1 near top No 3 at
bottom No 2 intermediate

Holz 129

9 ft deep stripping
3 ft 2 samples taken
one near top No 2 at
bottom.

Holz 130

14 ft deep 5 ft stripping
3 samples taken No
near top No 3, at bottom
No 2 intermediate,

Holz 131

13 ft 4" deep 5 ft stripping
3 samples taken No 1
near top No 3 at bottom
No 2 intermediate,

Hole 132

14 ft deep stripping 11 ft.
one sample taken at
bottom,

Hole 135 S.S.

9 ft deep 5 ft stripping
2 samples taken No 1
Top No 2 bottom
(also hole numbered
right —

134.

9 ft deep stripping
7 ft one sample

136 10 ft deep
6 ft stripping -
2 samples taken -

137 11 ft deep

10 ft stripping one
sample taken
probably rotten

138 7 ft deep

5 ft stripping one
sample probably no
good as hole not
deep enough -

Hale 214-0
Limestone contact - across
RR from graveyard in gully

Hales at Hardshead

234 235 236 237 262
263

$$\begin{array}{r}
 175 \\
 30 \\
 \hline
 9 \overline{) 5250} \\
 \underline{5640} \\
 5270 \quad 5640 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 564 \\
 260 \\
 \hline
 3384 \\
 11280 \\
 \hline
 60 \overline{) 14664} \\
 \underline{12000} \\
 2664 \\
 \underline{2400} \\
 264 \\
 \hline
 \end{array}$$

Diamond Drill Hole 1									
No 2 Hole									
Box	Sec	Si	act ft	Co	Box	Sec	Si	act ft	Co
Box 1	Sec 1	23.04	10.55	60.14	Box 6	Sec 1	33.90	11.94	48.21
0 1/8"	2	19.32	8.99	65.82	2	35.95	11.28	45.51	
1/8"	3	19.51	9.08	65.71	3	31.39	10.48	51.50	
	4	23.65	10.69	59.86	4	24.32	10.68	60.96	
Box 2	Sec 1	20.29	8.96	65.99	Box 7	Sec 1	20.96	11.06	64.94
2 7/8"	2	19.14	9.22	65.64	2	17.97	8.27	67.63	
	3	21.10	9.61	63.31	3	24.91	8.40	61.46	
5 1/8"	4	18.15	9.86	67.86	4	35.07	11.60	45.78	
Box 3	Sec 1	21.34	10.97	62.12	Box 8	Sec 1	35.67	11.00	50.53
"	2	21.18	10.49	61.93	2	27.85	9.27	60.47	
"	3	22.27	10.97	60.58	3	24.97	9.45	59.80	
"	4	21.48	10.76	64.28	4	21.90	9.28	65.61	
Box 4	Sec 1	19.58	10.96	65.61	Box 9	Sec 1	22.61	7.09	62.32
"	2	21.32	10.38	62.65	2	23.08	12.90	59.85	
"	3	21.12	10.61	63.03	3	19.90	10.12	66.06	
"	4	22.81	10.60	64.03	4				
Box 5	Sec 1	18.78	8.66	66.07					
2	24.99	8.92	62.80						
3	26.56	10.25	59.20						
4	23.14	10.00	61.06						

Dolomite from W side of hole 204

Si	al	Fe	Ca	Mg
3.90	1.03	.65	80.69	32.86

204 1 to 5 ft from Dolomite

Si	al	Fe	Ca	Mg
2.90	2.32	3.87	89.12	1.57

204 6 to 7 ft from Dolomite

Si	al	Fe	Ca	Mg
2.05	.93	1.15	94.39	1.48

112 1 to 5 ft from Galloway

Si	al	Fe	Ca	Mg
7.86	4.14	1.39	83.45	1.05

112 6 to 10 ft from Galloway

Si	al	Fe	Ca	Mg
7.71	4.71	1.39	82.30	2.32

Vulcanite
Ca Si Al Fe Mg -
68.77 17.46 8.90 2.95

Fe

3.31
3.48
2.30
2.38
2.13
2.13
2.30
2.13

Drill hole ND1 -

23 to 44 - 4 assay samples
from bags -

	Si	Al	Fe	Ca	Mg
1	28.10	10.62	3.15	52.16	2.76
2	20.62	6.83	2.21	65.64	2.72
3	19.80	6.83	1.99	66.32	3.04
4	18.98	6.89	1.91	68.58	2.94

	Si	Al	Fe	Ca	Mg
1	29.10	12.75	52.90		
2	29.10	12.88	52.65		
3	21.30	7.85	66.39		
4	20.95	9.95	64.95		
5	20.50	7.83	66.69		
6	20.70	7.60	67.06		
7	19.83	8.15	67.12		
8	19.21	10.65	66.21		

La Al Fe Si Mg					Rock: Si Al Fe Ca Mg					
44 to 48	63.68	6.50	2.72	19.96	3.66	9.37	19.67	7.49	2.21	64.18
48 to 50	64.94	5.81	2.38	20.97	3.44	8.29	21.13	6.61	2.21	65.20
50 to 55	68.05	6.08	2.00	18.57	2.69	8.98	18.28	5.85	2.30	68.81
55 to 62	68.44	6.02	2.08	18.47	3.18	8.10	17.94	6.41	2.21	69.17
62 to 66	62.75	6.56	3.10	21.78	3.36		21.70	7.99	2.47	69.86
66 to 70	67.49	6.53	2.30	18.22	3.29		18.22	7.62	2.38	67.62
70 to 77	67.57	6.19	2.00	18.56	3.31	8.39	18.07	7.18	2.13	68.12
77 to 84	68.26	6.00	2.34	17.36	3.50	8.83	17.67	7.30	1.79	68.43
84 to 93	69.02	7.35	1.53	16.74	1.26		16.63	7.30	1.28	70.24
93 to 97	67.62	6.38	2.17	18.61	3.49		18.10	6.49	2.38	67.56
97 to 102							15.82	6.26	1.99	70.73
102 to 116							16.80	6.03	1.92	69.76
116 to 121	73.76	5.75	1.26	14.74	3.32					
121 to 127	71.03	5.95	1.30	16.82	3.38					
137 to 148	67.19	8.10	1.9	14.49						
148 to 161	70.22	7.77	1.73	3.99						
161 to 167	68.80	7.60	1.75	4.75						
167 to 171	68.98	6.88	1.75	5.04						
127 to 130	78.47	7.6	1.19	12.38	3.24					
130 to 137	73.39	5.71	1.30	14.70	3.25					

Limestone Calhoun Contract
E. Sids

		Ca	Si	Al	Fe	Mg
✓ 96	1 to 5	91.27	2.28	1.49	.80	1.57 ⁹⁶
✓ 99.4	6 to 10	94.33	1.70	.70	.73	1.93 ^{99.4}
✓ 96.53	11 to 15	91.1	1.81	1.77	.57	1.40
✓ 99.99	16 to 20	94.24	1.17	.26	.57	3.73
✓ 93.46	21 to 25	88.94	1.69	.69	.84	6.30
✓ 96.77	26 to 30	87.99	2.12	3.17	.84	2.65
✓ 98.70	31 to 35	91.62	1.54	1.05	.84	3.65
100.14	36 to 40	94.52	1.08	.53	1.15	2.76
	41 to 45	96.41	1.53	.28	.92	
100	46 to 50	92.19	3.27	1.15	1.53	1.86
	51 to 55	89.83	4.42	1.91	1.38	
99.96	56 to 60	82.91	9.63	2.95	1.54	2.61
99.99	61 to 65	88.96	5.75	2.35	1.30	1.63
100.00	66 to 70	79.82	11.70	4.24	1.61	2.72
96.39	71 to 74	76.85	10.00	3.63	1.92	3.99
100.15	74 to 78 out	91.16	3.90	2.30	1.15	1.87
decamp	78 to 82					
		Wmmy	338	1.78		
		89.5				69% lime available

Male 112 - only left
black pieces large (what?)
shimmering stiff decaying
New out

1 to 5 ft
204 - Curious stiff crystalline
looks like glass but is
probably calcite or white
hematite

112 16 to 20 ft all decomposed
59 - 9 well away at bottom

112 6 to 10 ft decomposed
but not so bad as above

112 11 to 15 ft from bottom decomposed
204 - looks like Mass Co
undecomposed -

204 11 to 14 ft from bottom
decomposed -

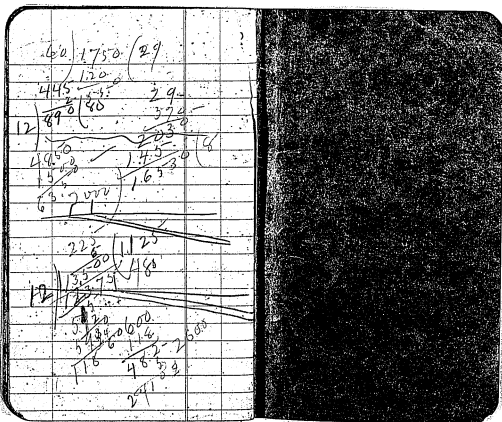
204 6 to 7 ft from Dolomite
2 pieces fairly OK one
large piece damp left out -

204 11 to 14 ft from Dolomite
Si al Fe Ca
535 346 94 97.90

112 11 to 15 ft from bottom
Si al Fe Ca
1337 567 1.68 74.87

112 16 to 20 ft from bottom
Si al Fe Ca
2212 926 1.29 59.24

112 29 ft 2" bottom
Si al Fe Ca
806 391 1.34 83.52



**EDISON PORTLAND CEMENT COMPANY RECORDS
FINANCIAL RECORDS**

These records cover the period 1899-1912 and consist of five general ledger books summarizing transactions relating to the cement works at Stewartville, New Jersey; company offices in Philadelphia and in Camden, New Jersey; and the model of Edison's concrete house at the West Orange laboratory.

Among the items not selected are seven general ledgers (1913-1929); eleven journals (1899-1925); fourteen cash books (1899-1919); eleven cash receipt books (1919-1931); and four cash disbursement books (1920-1931).

General Ledger (1899-1903)

This ledger covers the period June 1899-June 1903. As the account book of final entry, it summarizes transactions relating to the cement works at Stewartsville; the company offices in Philadelphia and Camden; and the model of Edison's concrete house at the West Orange laboratory. Included are accounts payable and receivable, sales accounts, and entries pertaining to the quarries, mills, and machinery at Stewartsville. Other accounts relate to experiments, plans, and assays. Numerous entries concern the assessments and payments of individual investors in the company, including Charles A. Coffin, Theron I. Crane, James Gaunt, James Gayley, Harlan Page, William S. Pilling, Willard P. Reid, and Robert H. Thompson. There are also accounts with Edison and with various Edison companies, including the Edison Manufacturing Co., Edison Ore Milling Syndicate, Ltd., Edison Phonograph Works, Edison Storage Battery Co., National Phonograph Co., and New Jersey and Pennsylvania Concentrating Works.

General Ledger (1903-1905)

This ledger covers the period July 1903-December 1905. As the account book of final entry, it summarizes transactions relating to the cement works at Stewartsville; the company offices in West Orange, Philadelphia, and Camden; and the model of Edison's concrete house at the West Orange laboratory. Included are accounts concerning sales and warehouse operations; capital, bond, and interest accounts; and a profit and loss statement for the year 1905. Other entries pertain to the quarries, mill buildings, and machinery at the Stewartsville works. There are also accounts with Edison and with various Edison companies, including the Edison Chemical Works, Edison Manufacturing Co., Edison Storage Battery Co., National Phonograph Co., and New Jersey and Pennsylvania Concentrating Works.

General Ledger (1906)

This ledger covers the period January-December 1906. As the account book of final entry, it summarizes transactions relating to the cement works at Stewartsville and company offices in Philadelphia and Camden. There are accounts with Edison and various Edison companies, including the Edison Manufacturing Co. and the New Jersey and Pennsylvania Concentrating Works.

General Ledger (1906-1909)

This ledger covers the period January 1906-December 1909. As the account book of final entry, it summarizes transactions relating to the cement works at Stewartsville and other company facilities. Included are accounts payable and receivable, bond and interest accounts, payroll accounts, and sales accounts. Also included are profit and loss statements for the period 1906-1909. A few accounts pertain to the use of duck bags in the shipment of cement. Other accounts relate to company offices in Boston, Camden, New York City, Philadelphia, Pittsburgh, and Savannah, as well as storage facilities in New Jersey, New York, and several southern states, including Alabama, Georgia, Florida, North Carolina, and South Carolina. There are also accounts with Edison and various Edison companies, including the Edison Crushing Roll Co. and the Edison Manufacturing Co.

General Ledger (1910-1912)

This ledger covers the period January 1910-December 1912. As the account book of final entry, it summarizes transactions relating to the cement works at Stewartville and other company facilities. Included are accounts receivable and payable; stock and bond accounts; payroll and advertising accounts; profit and loss statements; and accounts pertaining to sales, including the sale of fertilizer. A few accounts deal with paper and duck bags used for the shipment of cement. Some entries relate to poultry farming at Stewartville. Others pertain to company sales offices in Boston, Newark, New York City, Philadelphia, Pittsburgh, and Savannah. There are also warehouse accounts for facilities in New Jersey, New York, and several southern states, including Florida, Georgia, North Carolina, and South Carolina. In addition, there are accounts with Edison and various Edison companies, including the Edison Crushing Roll Co. and the Edison Manufacturing Co.

**Edison Portland Cement Company Records
General Ledger (1899-1903)**

This ledger covers the period June 1899-June 1903. As the account book of final entry, it summarizes transactions relating to the cement works at Stewartville; the company offices in Philadelphia and Camden; and the model of Edison's concrete house at the West Orange laboratory. Included are accounts payable and receivable, sales accounts, and entries pertaining to the quarries, mills, and machinery at Stewartville. Other accounts relate to experiments, plans, and assays. Numerous entries concern the assessments and payments of individual investors in the company, including Charles A. Coffin, Theron I. Crane, James Gaunt, James Gayley, Harlan Page, William S. Pilling, Willard P. Reid, and Robert H. Thompson. There are also accounts with Edison and with various Edison companies, including the Edison Manufacturing Co., Edison Ore Milling Syndicate, Ltd., Edison Phonograph Works, Edison Storage Battery Co., National Phonograph Co., and New Jersey and Pennsylvania Concentrating Works. The spine is stamped "Ledger No. 1." The front cover is marked "15." The book contains 473 numbered pages and an index; some pages are blank.

[REDUCTION RATIO = 16:1]

Edison Portland
Account

Ledger
1889-1902

- 701 1. *Quarries* (Petroleum, Shale, granite, gneiss and gneiss, etc.)
2. *Geology* (Geology, & etc.)
3. *Mineralogy* (Mineralogy, & etc.)
4. *Geological Survey* (Geological Survey, & etc.)
5. *Geological Survey*
6. *Geological Survey* (Geology, & etc.)
7. *Geology* (Geology, & etc.)
8. *Geological Survey* (Geology, & etc.)
9. *Geological Survey* (Geology, & etc.)
10. *Geological Survey* (Geology, & etc.)
11. *Geological Survey* (Geology, & etc.)
12. *Geological Survey* (Geology, & etc.)
13. *Geological Survey* (Geology, & etc.)
14. *Geological Survey* (Geology, & etc.)
15. *Geological Survey* (Geology, & etc.)
16. *Geological Survey* (Geology, & etc.)
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Gardner & Railway (72.10)

66 250

Preferred Capital Stock

1903	June 30	By Balance f.d.	1	1524400 00
1904	Dec 31	By Ammng. Exp	12	100000 00
		By " "	3	415000 00
		By " "	103400 00	
		By " "	1524400 00	

Underwriting Commission

1903	June 30	By Balance f.d.	4	115250 00
1904	Aug 31	By " "	57	1350 00
		By " "	7	1250 00
		By " "	24	1250 00
		By " "	12	1250 00
		By " "	16	1500 00
		By " "	24	1250 00
		By " "	51	1250 00
		By " "	12	1250 00
		By " "	65	1250 00
		By " "	6	1250 00
		By " "	69	1250 00
		By " "	70	1250 00
		By " "	71	1250 00
		By " "	72	1100 00
		By " "	73	9650 00
		By " "	74	300 00
		By " "	76	6750 00
		By " "	77	1250 00
		By " "	78	1250 00
		By " "	79	1250 00
		By " "	80	1250 00
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		By " "	154	1250 00
		By " "	155	1250 00
		By " "	156	1250 00
		By " "	157	1250 00
		By " "	158	1250 00
		By " "	159	1250 00
		By " "	160	1250 00
		By " "	161	1250 00
		By " "	162	1250 00
		By " "	163	1250 00
		By " "	164	1250 00
		By " "	165	1250 00
		By " "	166	1250 00
		By " "	167	1250 00
		By " "	168	1250 00
		By " "	169	1250 00
		By " "	170	1250 00
		By " "	171	1250 00
		By " "	172	1250 00
		By " "	173	1250 00
		By " "	174	1250 00
		By " "	175	1250 00
		By " "	176	1250 00
		By " "	177	1250 00
		By " "	178	1250 00
		By " "	179	1250 00
		By " "	180	1250 00
		By " "	181	1250 00
		By " "	182	1250 00
		By " "	183	1250 00
		By " "	184	1250 00
		By " "	185	1250 00
		By " "	186	1250 00
		By " "	187	1250 00
		By " "	188	1250 00
		By " "	189	1250 00
		By " "	190	1250 00
		By " "	191	1250 00
		By " "	192	1250 00
		By " "	193	1250 00
		By " "	194	1250 00
		By " "	195	1250 00
		By " "	196	1250 00
		By " "	197	1250 00
		By " "	198	1250 00
		By " "	199	1250 00
		By " "	200	1250 00

Common Capital Stock

[illegible]

Patents.

[illegible]

Thomas A. Edison Grand 75

[illegible]

W. S. Mallory Vice Presy Orange & O

1999	12	27	bank	5	500.00	1998	4	By bank	26	500.00
July	21			7	500.00	May	23		26	1000.00
Aug	14			9	1000.00	June	21	Balance		3000.00
Sept	6			13	500.00					
Oct	25			10	500.00					
Nov	16			7	500.00					
Dec	16			21	500.00					
				25	1000.00					
1999					4500.00					4500.00
Jan	1	By Balance		3000.00	1998	23	By Balance	1214	533.32	
Feb	20	Due Pay		544	133.32	May	27	By bank	724	133.32
Mar	20			114	1250.00	June	27	Balance	1504	416.64
Apr	6	bank		744	1000.00	May	19		1334	300.96
	19			744	1000.00	June	21	Interest	1334	32.74
	21			074	1250.00			bank	744	1247.26
Apr	25			074	1250.00	May	14	Interest	1404	33.32
May	14			054	154.11	June	6		1194	2610.64
June	1	State Tax		016	725.49		26	Interest	1504	34.79
					821.00			bank	934	1244.10
					1200.00		30	Balance to L	50	1343.14
					6200.64					6200.64

1900 May	1	3	Native	15	365	1900 May	5	3	Chauvin	26	243
May	5		band	133	475						
					494						445
1900 May	7	3	Brass	34	1542	1901 Apr	9	3	band	234	584
			Native	35	1836						
					3374						3374
1901 April	20	3	Drumhead	47	2263	May	24	3	band	226	2263
May	15		Drumhead	49	1200	May	10		band	15	1200
June	2	2	Blue Bay	5	215729	June	25	3	Drumhead	97	1443
					15129			band		2967	
May	22	3	Green Bay	7	170000	May	27	3	band	149	1662
					170000			band	114	3712	
										170000	
May	22	3	Drumhead	120	536	1900 May	25	3	band	72	170000
May	22		Blue Bay	11	175000					1800	35000
June	6		band	3	170000	June	23		band	155	175000
			band	16	165000	June	25		band	1500	39000
	25		band	4	175000					984	180000
					175000					237	450000
											350000
1901 May	11	3	band	117	12400	June	10	3	band	110	12400
May	24			199	20752		24		band	89	20752
					33102						33102
May	25	3	band	35	9900	May	31	3	Chauvin	135	9900

1880	19	23	land	57	57.27	June	13	57	land	65	2.50
1881	1			65	529.50	Aug	4	23		112	50.00
1882					55.00					120	10.75
1883	13			59	2.50	May	25			132	1.00
1884	23			105	227.50	Oct	20			150	25.00
1885	4			113	58.00		31			158	100.00
1886	24			120	9.00	Jan	10			160	10
1887					175	Jan	11			165	12.00
1888	25			127	100	May	1			170	12.00
1889	16			141	115.00	Nov	9			205	4.00
1890	20			155	27.00		15			222	12.00
1891	21			159	10.00	Apr	27			226	1.00
1892	2			167	270		37			242	12.25
1893	10				100	Feb	16			244	5.00
1894	7			169	79.00	Oct	5			246	6.50
1895	10			174	15.00		12			252	11.00
1896	11			175	12.00	Dec	3				35.00
1897	1			207	15.75		20			346	17.50
1898	6			209	10.00	Apr	20			350	1.00
1899	9			225	15.00	May	14			361	10.25
1900	10			227	1.00	Feb	18				1.50
1901	20			243	15.25		25			340	15.00
1902	25			245	59.00	Aug	5			342	3.00
1903	27				1.00					343	5.00
1904					4.00						
1905	10			250	15.00						
1906	15			257	24.00						
1907	16			261	6.50						
1908	7			261	52.50						
1909	25			303	35.00						
1910	3			321	143.63						
1911	5			321	36.00						
1912	1			323	10.00						
1913	12				25.00						
1914	3			323	1.50						
1915	4			349	115.00						
1916	20				29.50						
1917	9			357	1.00						
1918	14			371	57.50						
1919					6.00						
1920					1.00						
1921	14			384	422.90						
1922	2				50.00						
1923				385	5.00						
1924	3			385	5.00						

Dr

Cash

Cr

1899	June	30	2	Landau	4	15740.00	1899	July	31	By Landau	7	6975.04
	July	31			6	7447.50		Aug	31		11	15790.94
	Aug	31			10	13495.00		Sept	30		15	6374.50
	Sept	30			14	9440.00		Oct	31		19	15329.93
	Oct	31			18	6220.00		Nov	30		21	1320.15
	Nov	30			20	4950.00		Dec	30		25	3755.42
	Dec	30			24	2676.40				Balance		16523.20
						45757.90						45757.90
1900	Jan	1	2	Balance	36	5625.20	1900	Jan	31	By Landau	31	6250.53
	Jan	31		Landau	30	2766.71		Feb	28		41	30727.46
	Feb	28			40	11447.41		Mar	31		50	53375.94
	Mar	31			50	5121.55				Balance		264247.30
						409444.07						409444.07
April	1	2	Balance	23	23247.50	Apr	30	By Landau	63	42051.79		
	30		Landau	62	1105	May	31		83	69504.44		
	May	31			62	5000.00		June	30		99	54022.36
	June	30			95	57493		July	31		111	31104.02
	July	31			110	5400.04		Aug	31		131	40721.16
	Aug	31			131	12250.93		Sept	29		141	36936.22
	Sept	29			140	16901.24		Oct	31		159	58572.54
	Oct	31			158	21829.16		Nov	30		173	85546.25
	Nov	30			172	7364.00		Dec	31		177	52571.93
	Dec	31			174	20449.10				180	54440.52	
	1901	Jan	31		204	58545.15		Jan	31		219	54357.76
	Feb	28			210	44544.00		Mar	30		235	115571.00
	Mar	30			234	12704.45		Apr	30		251	71622.28
	April	30			250	12799.66		May	31		263	59444.14
	May	31			262	15402.04		June	29		275	32671.35
	June	29			274	53445.36		July	31		285	54443.51
	July	31			284	14502.96		Aug	31		307	75437.14
	Aug	31			306	7767.00		Sept	30		319	41136.04
	Sept	30			318	4753.02		Oct	30		329	50061.51
	Oct	30			316	65340.05		Nov	30		347	67425.69
	Nov	30			346	72249.04		Dec	31		359	45444.44
	Dec	31			344	17619.06				375	58855.55	
	1902	Jan	31		344	54497.19		Jan	31		385	50344.57
	Feb	28			342	24774.99		Mar	31		393	66571.42
	Mar	31			391	16435.66				403	66571.42	
						115509.55				Balance		102475.69
Apr	1	2	Balance	14	19294.09	Apr	30	By Landau	14	71045.41		
	30		Landau	14	50212.06		May	31		20	41744.04	
	May	31			20	64444.52		June	30		25	53266.76
	June	30			25	64444.52		July	31		32	71033.36
	July	31			32	64444.52				Balance		25152.41
						264244.61						264244.61

Cash

1901	Aug	1	2	Balance	10	25152.41	1901	Aug	31	By Landau	47	60857.66
	30				37	40090.18		Sept	30		41	74647.19
	Sept	30			41	67229.19		Oct	29		49	61500.11
	Oct	31			49	74645.12		Nov	29		52	54444.12
	Nov	29			52	58822.43		Dec	31		54	57754.02
	Dec	31			54	58822.43				Balance		6370960.57
						6370960.57						6370960.57
1902	Jan	1	2	Balance	72	65977.94	1902	Jan	31		75	44443.04
	Jan	31			75	44443.04		Feb	28		81	66013.49
	Feb	28			81	66013.49		Mar	30		84	76764.60
	Mar	30			84	76764.60		Apr	30		94	55444.60
	Apr	30			94	55444.60		May	30		94	55444.60
	May	30			94	55444.60		June	30		94	55444.60
	June	30			94	55444.60				Balance		706544.70
						706544.70						706544.70

706544.70
691444.61
14444.09

Expenses, Philada Office)

1890	1	2	Banner	15	24	1891	17	5841.65
Apr	4		back	53.	41.67	May	24	Of Amble, Tenn
	30			64.	62.50			
					62.50			
					90.00			
May	5			67.	41.67			
	31			44.	62.50			
					62.50			
					90.00			
June	11			77.	41.67			
	15			91.	99.6			
	22			97.	55.14			
	30			99.	62.50			
					62.50			
					90.00			
July	5			101.	41.67			
	10			105.	247.5			
	31			111.	62.50			
					62.50			
					90.00			
Aug	4			113.	41.67			
	30			123.	62.50			
					62.50			
					90.00			
Sept	14			135.	55.14			
	29			141.	62.50			
					62.50			
					90.00			
Oct	7			143.	50.00			
	23				41.67			
	31			155.	10.46			
				179.	62.50			
					62.50			
					90.00			
Nov	2			161.	41.67			
	30			173.	62.50			
					62.50			
					90.00			
Dec	1			175.	41.67			
	29			185.	62.50			
					62.50			
					90.00			
1891	10			175.	41.67			
Jan	24			201.	10.46			
					5841.65			

Phrada Office Expenses

1991	16	53	41	65	1991	1	By Amey food	15	PL	76
Jan	2	3	Amey food							
	51		band	205	62.50					
					62.50					
					90.00					
Feb	6			209	55.50					
	20				41.67					
				219	62.50					
					62.50					
					90.00					
March	1			221	55.50					
	30				41.67					
				225	62.50					
					62.50					
					90.00					
April	1			227	55.50					
	30				41.67					
				231	62.50					
					62.50					
					90.00					
May	1				62.50					
	2			233	41.67					
	30				62.50					
					62.50					
					90.00					
June	6			235	55.50					
	15				41.67					
				237	50.00					
	26				62.50					
July	1			241	62.50					
					62.50					
					90.00					
					62.50					
					90.00					
Aug	1			247	55.50					
					62.50					
					90.00					
					41.67					
	3				62.50					
	16			249	41.67					
	29			255	19.41					
					62.50					
					62.50					
					90.00					
Sept	4			259	71.43					
	30				62.50					
					62.50					
					90.00					
Oct	1			261	79.41					
	31				62.50					
					62.50					
					90.00					
Nov	1			263	41.67					

Expense (Orange) Office No 13

1979	10	2	land	5	205.33	1979	12	9	St. Louis, Mo.	9	32.50
1979	12	.	.	5	30.30	1979	5	.	Bureau	25	3907.47
.	.	.	.	5	3.43	.	.	.	.	.	.
.	14	.	.	5	27.45	.	.	.	.	.	.
.	.	.	.	5	94.02	.	.	.	.	.	.
.	.	.	.	5	5.70	.	.	.	.	.	.
.	.	.	.	5	30.67	.	.	.	.	.	.
.	17	.	.	5	1.94	.	.	.	.	.	.
.	20	.	.	5	26.00	.	.	.	.	.	.
.	.	.	.	7	5.60	.	.	.	.	.	.
.	26	.	.	7	3.14	.	.	.	.	.	.
.	29	.	.	7	6.59	.	.	.	.	.	.
.	.	.	.	7	2.65	.	.	.	.	.	.
Arpts	2	.	.	9	416.66	.	.	.	.	.	.
.	11	.	.	9	47.97	.	.	.	.	.	.
.	.	.	.	9	6.00	.	.	.	.	.	.
.	30	.	.	11	44.00	.	.	.	.	.	.
.	.	.	.	11	416.66	.	.	.	.	.	.
Sty	19	.	.	13	116.19	.	.	.	.	.	.
.	30	.	.	15	416.66	.	.	.	.	.	.
Phy	5	.	.	17	111.44	.	.	.	.	.	.
.	16	.	.	.	44.00	.	.	.	.	.	.
.	23	.	.	.	22.00	.	.	.	.	.	.
.	25	.	.	.	33.62	.	.	.	.	.	.
.	30	.	.	19	22.00	.	.	.	.	.	.
.	31	.	.	.	416.66	.	.	.	.	.	.
Wm	5	.	.	21	41	.	.	.	.	.	.
.	21	.	.	.	46.00	.	.	.	.	.	.
.	.	.	.	.	23.00	.	.	.	.	.	.
.	28	.	.	.	29.00	.	.	.	.	.	.
.	29	.	.	.	416.66	.	.	.	.	.	.
Perm	5	.	.	23	27.00	.	.	.	.	.	.
.	.	.	.	.	50.94	.	.	.	.	.	.
.	9	.	.	.	35.83	.	.	.	.	.	.
.	13	.	.	.	27.00	.	.	.	.	.	.
.	16	.	.	.	105.27	.	.	.	.	.	.
.	20	.	.	.	15.00	.	.	.	.	.	.
.	26	.	.	25	13.82	.	.	.	.	.	.
.	30	.	.	.	4.50	.	.	.	.	.	.
.	.	.	.	.	4.50	.	.	.	.	.	.
.	.	.	.	.	416.66	.	.	.	.	.	.
.	.	.	.	.	12.00	.	.	.	.	.	.
1979	5	.	.	27	75.00	.	.	.	.	.	.
1979	.	.	.	.	12.00	.	.	.	.	.	.
.	.	.	.	.	3949.97	.	.	.	.	.	.

3949.97

Expense (Orange) Office (No 13)

1979	5	2	Bureau	3917.47	1979	12	9	land	45	2.52
1979	5	.	land	27. 104.37	1979	31	.	Bureau	24	64.19
.	11	.	.	27. 1.44	.	.	.	.	.	.
.	.	.	.	53.70	.	.	.	.	.	.
.	.	.	.	75	.	.	.	.	.	.
.	12	.	.	29. 14.00	.	.	.	.	.	.
.	23	.	.	14.00	.	.	.	.	.	.
.	.	.	.	14.00	.	.	.	.	.	.
.	26	.	.	4.05	.	.	.	.	.	.
.	.	.	.	4.02	.	.	.	.	.	.
.	.	.	.	110.5	.	.	.	.	.	.
.	.	.	.	9.65	.	.	.	.	.	.
.	31	.	.	31. 416.66	.	.	.	.	.	.
Feb	1	.	.	33. 23.34	.	.	.	.	.	.
.	5	.	.	75.00	.	.	.	.	.	.
.	8	.	.	27.00	.	.	.	.	.	.
.	14	.	.	35. 27.00	.	.	.	.	.	.
.	20	.	.	31.61	.	.	.	.	.	.
.	.	.	.	5.00	.	.	.	.	.	.
.	.	.	.	22.14	.	.	.	.	.	.
.	.	.	.	114.75	.	.	.	.	.	.
.	21	.	.	27.00	.	.	.	.	.	.
.	24	.	.	41. 416.66	.	.	.	.	.	.
.	2	.	.	43. 65.19	.	.	.	.	.	.
.	.	.	.	27.00	.	.	.	.	.	.
.	3	.	.	75.00	.	.	.	.	.	.
.	7	.	.	1.27	.	.	.	.	.	.
.	8	.	.	27.00	.	.	.	.	.	.
.	9	.	.	60	.	.	.	.	.	.
.	15	.	.	45. 27.00	.	.	.	.	.	.
.	.	.	.	47. 22.44	.	.	.	.	.	.
.	16	.	.	4.20	.	.	.	.	.	.
.	19	.	.	49. 17.44	.	.	.	.	.	.
.	.	.	.	194	.	.	.	.	.	.
.	22	.	.	27.00	.	.	.	.	.	.
.	24	.	.	51. 32.00	.	.	.	.	.	.
.	29	.	.	75.00	.	.	.	.	.	.
.	30	.	.	416.66	.	.	.	.	.	.
.	31	.	Exp. & Perm	11. 25.260	.	.	.	.	.	.
.	.	.	.	6421.76	.	.	.	.	.	.

6421.76

Expenses Orange Office

1950	April	1	2	Balance	23	6419.22	1950	June	25	6477.27	15	1041
				Sp. O. B. M.	13	290.51					24	4850
		11		Bank	58	40.45					25	6477.27
						64.52						
						51.53						
						2.49						
						54.64						
		12				6.10						
						2.70						
		16			57	56.35						
		19				24.50						
					59	6.90						
						57.44						
		26			63	4.46						
						47.44						
		30				416.66						
May		1			65	75.00						
		2				47.29						
		8			67	50.55						
		11				7.40						
						59						
					69	55.73						
		17			71	7.94						
						7.04						
						74.46						
		18			73	53.29						
		23			77	55.27						
		24			Sp. O. B. M.	14	74.85					
		29			Bank	41	47.29					
		30				75.00						
		31				416.66						
June		7				47.29						
					15	59						
		13			17	47.59						
					19	1.00						
		16				42.77						
					91	50.5						
						1.50						
		21			Sp. O. B. M.	16	63.17					
					Bank	73	7.13					
						6.40						
					95	40.44						
						60						
		29			97	43.63						
						5927.62						

7927.62

Expenses Orange Office

1950	June	29	2	Balance	5777.27	1950	July	26	11757.27
		30		Bank	79	416.66			
	July	6			75.00				
		12			101	45.84			
		13			103	40.54			
		16			50				
					2.60				
		20			105	159.00			
		26			107	40.54			
		31			109	269.21			
					109	117.73			
					109	41.29			
					111	416.66			
Aug		1			113	69.90			
					75.00				
		8			114	41.14			
		9			115	142			
					4.41				
					11.51				
					119.20				
		17			117	41.14			
		22			119	64.43			
					40.54				
		30			123	75.00			
					416.66				
		31			44.64				
					125	64.79			
					2.10				
					70.22				
					5.00				
					127	132			
					170				
					670				
					75				
					1.50				
					141	1.90			
					46.57				
Sept		6			133	40.64			
		12			25.13				
					105	10.31			
					30				
		14			44.64				
		26			137	44.64			
					11757.27				

11757.27

Orange Office Expenses

1990	1990				
Exp	Exp	1990	1990	1990	1990
25	25	25	25	25	25
26	26	26	26	26	26
27	27	27	27	27	27
28	28	28	28	28	28
29	29	29	29	29	29
30	30	30	30	30	30
31	31	31	31	31	31
32	32	32	32	32	32
33	33	33	33	33	33
34	34	34	34	34	34
35	35	35	35	35	35
36	36	36	36	36	36
37	37	37	37	37	37
38	38	38	38	38	38
39	39	39	39	39	39
40	40	40	40	40	40
41	41	41	41	41	41
42	42	42	42	42	42
43	43	43	43	43	43
44	44	44	44	44	44
45	45	45	45	45	45
46	46	46	46	46	46
47	47	47	47	47	47
48	48	48	48	48	48
49	49	49	49	49	49
50	50	50	50	50	50
51	51	51	51	51	51
52	52	52	52	52	52
53	53	53	53	53	53
54	54	54	54	54	54
55	55	55	55	55	55
56	56	56	56	56	56
57	57	57	57	57	57
58	58	58	58	58	58
59	59	59	59	59	59
60	60	60	60	60	60
61	61	61	61	61	61
62	62	62	62	62	62
63	63	63	63	63	63
64	64	64	64	64	64
65	65	65	65	65	65
66	66	66	66	66	66
67	67	67	67	67	67
68	68	68	68	68	68
69	69	69	69	69	69
70	70	70	70	70	70
71	71	71	71	71	71
72	72	72	72	72	72
73	73	73	73	73	73
74	74	74	74	74	74
75	75	75	75	75	75
76	76	76	76	76	76
77	77	77	77	77	77
78	78	78	78	78	78
79	79	79	79	79	79
80	80	80	80	80	80
81	81	81	81	81	81
82	82	82	82	82	82
83	83	83	83	83	83
84	84	84	84	84	84
85	85	85	85	85	85
86	86	86	86	86	86
87	87	87	87	87	87
88	88	88	88	88	88
89	89	89	89	89	89
90	90	90	90	90	90
91	91	91	91	91	91
92	92	92	92	92	92
93	93	93	93	93	93
94	94	94	94	94	94
95	95	95	95	95	95
96	96	96	96	96	96
97	97	97	97	97	97

Orange Office Expenses

1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100

Orange Office

Aug 1	3	any for	27	17464.11	Aug 12	12	any for	500	20496.10
		bank	241	54.50					
25			435	60.63					
26				50					
				2.00					
			445	2.49					
29			247	190.36					
30			249	75.00					
			251	416.66					
Aug 10			252	26.70					
			257	6.14					
			257	3.96					
			257	40.96					
11				37.50					
				59.00					
17			257	777					
				184					
24				1512					
			251	13075					
27				59.00					
			263	84.50					
30				1.31					
				75.00					
June 7			255	54.69					
				57.51					
7			257	63.01					
				74.73					
				108.42					
			169	54.50					
19				9.63					
20			275	2.61					
22				99.14					
				54.50					
25			275	452					
				1.14					
27				54.50					
July 7			277	416.66					
				75.00					
10			279	1524					
				95					
11			281	54.50					
				54.50					
12				9.81					
				20496.10					

Internal Revenue Stamp

Aug 1	24	any for	11	4500.00	Aug 12	12	any for	10	4500
25			13	16500	25			25	7.50
26			17	60000	25			53	29.20
29			21	5000					
30			29	6670					
				5441.70					5441.70
June 1	23	Balance		5379.20	June 30	30	Balance		6010.70
July 1	24	any for	107	100.00					
2	11		177	5441.70					
3	3		249	160.70					
25	25		277	6.50					
26	26		241	5441.70					
27	27		271	5441.70					
				6010.70					6010.70
June 1	23	Balance		6010.70	June 30	30	Balance	27	6010.70

Camden Office Expenses, or disbursements, Aug. 11/94 to July 1/95

1909 Apr	2	to	Bacon	7	50	50	1909 June	31	of	Bacon		23	50	
"	7	"	bad	7	32	50						68	50	
					18	00								
1910 Apr	1	2	Bacon		13	00	1912 June	31	of	Bacon		239	55	
June	6	"	bad	15	50	70								
"	15	"	"	15	29	75								
Aug	6	"	"	25	51	70								
Sept	20	"	"	313	25	00								
					239	55								
1912 April	1	2	Bacon		239	55	1913 June	30	of	Bacon	2	46	566	70
July	11	"	bad	21	50	70								
Aug	11	"	"	59	25	70								
Sept	12	"	"	90	51	75								
					566	70								
					566	70								

The Real Estate Title Insurance Co
528 Chestnut St, Phila Pa

[illegible]

Explorations 7614

1899	13	By bank	5	576.94	1899	13	By bank	57	13055.19
July	14	"	"	1752.4					
"	"	"	"	314.05					
"	"	"	"	304.59					
"	"	"	"	391.98					
Aug	11	"	"	9	819.17				
"	14	"	"	9	2000				
"	16	"	"	9	129.39				
"	"	"	"	9	204.42				
"	1	"	"	9	404.72				
Sept	6	"	"	13	20.29				
"	"	"	"	13	344.21				
"	19	"	"	13	35.57				
"	"	"	"	13	531.65				
"	23	"	"	13	524.63				
"	"	"	"	13	101.09				
Oct	4	"	"	17	359.77				
"	"	"	"	17	42.00				
"	"	"	"	17	81.22				
"	7	"	"	17	349.25				
"	16	"	"	17	441.34				
"	23	"	"	17	325.53				
"	27	"	"	17	325.16				
"	"	"	"	17	124.00				
"	"	"	"	17	142.71				
"	"	"	"	17	49.00				
"	25	"	"	17	76.21				
"	31	"	"	19	3.04				
Nov	2	"	"	21	50.00				
"	6	"	"	"	346.75				
"	8	"	"	"	204.76				
"	"	"	"	"	405.40				
"	"	"	"	"	1046.15				
"	"	"	"	"	46				
"	16	"	"	"	176.66				
"	21	"	"	21	1154.44				
Dec	1	"	"	23	105.49				
"	"	"	"	"	13.62				
"	"	"	"	"	111.40				
"	2	"	"	"	123.00				
"	5	"	"	"	174.50				
"	12	"	"	"	216.65				
"	14	"	"	"	160.00				
"	"	"	"	"	503.59				
					13035.19				13035.19

Explorations 7614

1899	13	By bank	13035.19	1899	30	By bank	24	176.40
Dec	"	"	9.41	Dec	30	By bank	33	176.12
"	"	"	62.19	"	"	"	"	"
"	"	"	14.50	"	"	"	"	"
"	"	"	56.56	"	"	"	"	"
"	"	"	349.70	"	"	"	"	"
"	"	"	410.02	"	"	"	"	"
"	"	"	427.55	"	"	"	"	"
"	20	"	1341.57	"	"	"	"	"
"	26	"	25	92.51	"	"	"	"
"	"	"	"	99.96	"	"	"	"
"	"	"	"	31.02	"	"	"	"
"	"	"	"	27.4	"	"	"	"
"	"	"	"	3.10	"	"	"	"
"	"	"	"	44.60	"	"	"	"
"	"	"	"	9.65	"	"	"	"
"	"	"	"	49.4	"	"	"	"
"	"	"	"	39.69	"	"	"	"
"	30	"	"	4.25	"	"	"	"
"	"	"	"	1.51	"	"	"	"
"	"	"	"	122.00	"	"	"	"
"	"	"	"	51.00	"	"	"	"
1899	5	"	27	465.99	"	"	"	"
Jan	"	"	"	216.66	"	"	"	"
"	"	"	"	150.00	"	"	"	"
"	7	"	"	113.13	"	"	"	"
"	11	"	"	15.23	"	"	"	"
"	"	"	"	16.97	"	"	"	"
"	"	"	"	7.04	"	"	"	"
"	"	"	"	22.40	"	"	"	"
"	"	"	"	5.49	"	"	"	"
"	"	"	"	9.66	"	"	"	"
"	"	"	"	44.04	"	"	"	"
"	"	"	"	14.96	"	"	"	"
"	"	"	"	5.08	"	"	"	"
"	"	"	"	2.15	"	"	"	"
"	"	"	"	1.03	"	"	"	"
"	"	"	"	29	262.72	"	"	"
"	1	"	33	104.05	"	"	"	"
"	"	"	"	30.50	"	"	"	"
"	5	"	"	12.15	"	"	"	"
"	9	"	"	96	"	"	"	"
"	14	"	35	400.65	"	"	"	"
"	20	"	39	46.50	"	"	"	"
				177.79	"	"	"	"

A. H. Bigelow

1899 July	14	2	bank	5.	37.50	1899 July	21	2	bank	4.	37.50
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Edward A. Darling Notary Public
 1899
 July 1 2 bank 61. 300.00
 July 21 2 bank 11. 300.00

H. W. Elliott Jr.

1899 July	14	2	bank	5.	25.00	1899 July	21	2	bank	4.	25.00
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E. L. Lacey

1899 July	14	2	bank	5.	39.10	1899 Aug	11	2	bank	3.	67.94
	17	.	.	5.	2.00						
	20	.	.	7.	633.61						
Aug	11	.	.	9.	12.53						
					677.94						677.94

Tulcan Iron Works Co. - Toledo, Ohio

1899 July	17	2	bank	29.	4000.00	1899 July	17	2	bank	10.	5250.00
	25	.	.		1250.00						
					5250.00						5250.00
July	12	2	bank	33.	6000.00	Aug	25	2	bank	13.	10000.00
bank	5	.	.	43.	2500.00						
	21	.	.	19.	1500.00						
Aug	23	.	.	61.	1000.00						
					11000.00						11000.00
Aug	4	2	bank	65.	5000.00	Aug	7	2	bank	21.	10947.15
	10	.	.	73.	4000.00						
July	6	.	.	101.	1000.00						
Aug	17	.	.	117.	947.15						
					10947.15						10947.15

Experiments to Plans No. 15

1999	14	23	Band	5.	255	Aug	16	By Amey food	4769 48
July	17			5.	2474				
				5.	2807				
				5.	6944				
	20			7.	15442				
				7.	98				
				7.	346				
				7.	659				
				7.	14707				
				7.	5770				
	24			7.	1347				
				7.	272				
	25			7.	1216				
				7.	4234				
				7.	9474				
				7.	1385				
				7.	514				
				7.	7065				
				7.	123				
	29			7.	1446				
				7.	1098				
Aug				7.	28742				
				9.	6444				
				9.	12500				
	11			9.	27494				
				9.	8163, 62				
				9.	1459				
				9.	25000				
				9.	1250				
				9.	2740				
				9.	2675				
				9.	50155				
				9.	530				
				9.	1317				
				9.	1500				
				9.	2984				
				9.	277				
				9.	5144				
				9.	102				
				9.	105				
14				9.	1053				
				9.	762				
16				9.	15000				
				11.	64455				
					4769 48				4769 48

Experiments to Plans No. 15

1999	16	23	Band	40	4769 48	1999	16	23	Band	40	4769 48
Aug	14			11.	546	Aug	14			11.	546
				11.	170					11.	170
				11.	294					11.	294
				11.	35					11.	35
	30			11.	52532					11.	52532
Sept	1			13.	13500					13.	13500
				11.	250 00					11.	250 00
	6			11.	1729					11.	1729
				11.	6752					11.	6752
				11.	7040					11.	7040
				11.	720					11.	720
				11.	6200					11.	6200
				11.	594					11.	594
				11.	149					11.	149
				11.	1982					11.	1982
				11.	2460					11.	2460
				11.	2000					11.	2000
				11.	212					11.	212
				11.	1114					11.	1114
				11.	16413					11.	16413
				11.	72					11.	72
				11.	1459 54					11.	1459 54
				11.	500 00					11.	500 00
	19			11.	254 72					11.	254 72
Oct	4			17.	25800					17.	25800
				11.	130 00					11.	130 00
	5			11.	44590					11.	44590
	6			11.	193 19					11.	193 19
	7			11.	2423 14					11.	2423 14
				11.	500 00					11.	500 00
				11.	5336					11.	5336
				11.	2522					11.	2522
	16			11.	570 62					11.	570 62
	17			11.	9000					11.	9000
	23			11.	246 67					11.	246 67
	27			11.	169 74					11.	169 74
				11.	2653					11.	2653
				11.	2045					11.	2045
				11.	125 64					11.	125 64
				11.	17 41					11.	17 41
	24			19.	224 50					19.	224 50
	30			11.	323 00					11.	323 00
Nov	8			11.	51 15					11.	51 15
					147 27 50						147 27 50

Experiments of Plans No 18

1992	23	25	27	29	31	33	35	37	39	41	43	45	47	49	51	53	55	57	59	61	63	65	67	69	71	73	75	77	79	81	83	85	87	89	91	93	95	97	99	101	103	105	107	109	111	113	115	117	119	121	123	125	127	129	131	133	135	137	139	141	143	145	147	149	151	153	155	157	159	161	163	165	167	169	171	173	175	177	179	181	183	185	187	189	191	193	195	197	199	201	203	205	207	209	211	213	215	217	219	221	223	225	227	229	231	233	235	237	239	241	243	245	247	249	251	253	255	257	259	261	263	265	267	269	271	273	275	277	279	281	283	285	287	289	291	293	295	297	299	301	303	305	307	309	311	313	315	317	319	321	323	325	327	329	331	333	335	337	339	341	343	345	347	349	351	353	355	357	359	361	363	365	367	369	371	373	375	377	379	381	383	385	387	389	391	393	395	397	399	401	403	405	407	409	411	413	415	417	419	421	423	425	427	429	431	433	435	437	439	441	443	445	447	449	451	453	455	457	459	461	463	465	467	469	471	473	475	477	479	481	483	485	487	489	491	493	495	497	499	501	503	505	507	509	511	513	515	517	519	521	523	525	527	529	531	533	535	537	539	541	543	545	547	549	551	553	555	557	559	561	563	565	567	569	571	573	575	577	579	581	583	585	587	589	591	593	595	597	599	601	603	605	607	609	611	613	615	617	619	621	623	625	627	629	631	633	635	637	639	641	643	645	647	649	651	653	655	657	659	661	663	665	667	669	671	673	675	677	679	681	683	685	687	689	691	693	695	697	699	701	703	705	707	709	711	713	715	717	719	721	723	725	727	729	731	733	735	737	739	741	743	745	747	749	751	753	755	757	759	761	763	765	767	769	771	773	775	777	779	781	783	785	787	789	791	793	795	797	799	801	803	805	807	809	811	813	815	817	819	821	823	825	827	829	831	833	835	837	839	841	843	845	847	849	851	853	855	857	859	861	863	865	867	869	871	873	875	877	879	881	883	885	887	889	891	893	895	897	899	901	903	905	907	909	911	913	915	917	919	921	923	925	927	929	931	933	935	937	939	941	943	945	947	949	951	953	955	957	959	961	963	965	967	969	971	973	975	977	979	981	983	985	987	989	991	993	995	997	999	1001	1003	1005	1007	1009	1011	1013	1015	1017	1019	1021	1023	1025	1027	1029	1031	1033	1035	1037	1039	1041	1043	1045	1047	1049	1051	1053	1055	1057	1059	1061	1063	1065	1067	1069	1071	1073	1075	1077	1079	1081	1083	1085	1087	1089	1091	1093	1095	1097	1099	1101	1103	1105	1107	1109	1111	1113	1115	1117	1119	1121	1123	1125	1127	1129	1131	1133	1135	1137	1139	1141	1143	1145	1147	1149	1151	1153	1155	1157	1159	1161	1163	1165	1167	1169	1171	1173	1175	1177	1179	1181	1183	1185	1187	1189	1191	1193	1195	1197	1199	1201	1203	1205	1207	1209	1211	1213	1215	1217	1219	1221	1223	1225	1227	1229	1231	1233	1235	1237	1239	1241	1243	1245	1247	1249	1251	1253	1255	1257	1259	1261	1263	1265	1267	1269	1271	1273	1275	1277	1279	1281	1283	1285	1287	1289	1291	1293	1295	1297	1299	1301	1303	1305	1307	1309	1311	1313	1315	1317	1319	1321	1323	1325	1327	1329	1331	1333	1335	1337	1339	1341	1343	1345	1347	1349	1351	1353	1355	1357	1359	1361	1363	1365	1367	1369	1371	1373	1375	1377	1379	1381	1383	1385	1387	1389	1391	1393	1395	1397	1399	1401	1403	1405	1407	1409	1411	1413	1415	1417	1419	1421	1423	1425	1427	1429	1431	1433	1435	1437	1439	1441	1443	1445	1447	1449	1451	1453	1455	1457	1459	1461	1463	1465	1467	1469	1471	1473	1475	1477	1479	1481	1483	1485	1487	1489	1491	1493	1495	1497	1499	1501	1503	1505	1507	1509	1511	1513	1515	1517	1519	1521	1523	1525	1527	1529	1531	1533	1535	1537	1539	1541	1543	1545	1547	1549	1551	1553	1555	1557	1559	1561	1563	1565	1567	1569	1571	1573	1575	1577	1579	1581	1583	1585	1587	1589	1591	1593	1595	1597	1599	1601	1603	1605	1607	1609	1611	1613	1615	1617	1619	1621	1623	1625	1627	1629	1631	1633	1635	1637	1639	1641	1643	1645	1647	1649	1651	1653	1655	1657	1659	1661	1663	1665	1667	1669	1671	1673	1675	1677	1679	1681	1683	1685	1687	1689	1691	1693	1695	1697	1699	1701	1703	1705	1707	1709	1711	1713	1715	1717	1719	1721	1723	1725	1727	1729	1731	1733	1735	1737	1739	1741	1743	1745	1747	1749	1751	1753	1755	1757	1759	1761	1763	1765	1767	1769	1771	1773	1775	1777	1779	1781	1783	1785	1787	1789	1791	1793	1795	1797	1799	1801	1803	1805	1807	1809	1811	1813	1815	1817	1819	1821	1823	1825	1827	1829	1831	1833	1835	1837	1839	1841	1843	1845	1847	1849	1851	1853	1855	1857	1859	1861	1863	1865	1867	1869	1871	1873	1875	1877	1879	1881	1883	1885	1887	1889	1891	1893	1895	1897	1899	1901	1903	1905	1907	1909	1911	1913	1915	1917	1919	1921	1923	1925	1927	1929	1931	1933	1935	1937	1939	1941	1943	1945	1947	1949	1951	1953	1955	1957	1959	1961	1963	1965	1967	1969	1971	1973	1975	1977	1979	1981	1983	1985	1987	1989	1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	2023	2025	2027	2029	2031	2033	2035	2037	2039	2041	2043	2045	2047	2049	2051	2053	2055	2057	2059	2061	2063	2065	2067	2069	2071	2073	2075	2077	2079	2081	2083	2085	2087	2089	2091	2093	2095	2097	2099	2101	2103	2105	2107	2109	2111	2113	2115	2117	2119	2121	2123	2125	2127	2129	2131	2133	2135	2137	2139	2141	2143	2145	2147	2149	2151	2153	2155	2157	2159	2161	2163	2165	2167	2169	2171	2173	2175	2177	2179	2181	2183	2185	2187	2189	2191	2193	2195	2197	2199	2201	2203	2205	2207	2209	2211	2213	2215	2217	2219	2221	2223	2225	2227	2229	223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Experiments to Glance No 16

1900 May	20	By Amy Ford	3496919	May 15	By Amy Ford	454804574
		back	471 420			
			407			
			59 92			
			1764			
	21		64726			
	22		591 21 96			
	23		120 25			
			10 29			
			10 54			
			5 96			
			15 99			
			15 34			
			6 12			
			7 06			
			107 45			
			1764			
			5 44			
			19 32			
			23 46			
May 2			431 7174			
			412 96			
6			1697 27			
			204 53			
7			11 76			
			564			
			269			
			536 67			
			4260 60			
9			239 46			
			454 430			
			4 50			
			13 05			
			42 10			
			6 42			
			65 73			
10			223			
			59 53			
13			147 12			
			193 47			
			237 69			
			566 43			
			4 41			
15			544 76			
			4524574			

Experiments to Glance

1900 May	15	By Andy Ford	44 458 4574	1900 May 31	By Landon	11 1163 54
		back	45 465 80			12 587 40 10
			47 522			
			134 10			
			102 01			
			64 01			
			15 14			
			34 00			
	16		22 50			
			6 11			
			3 73			
			4 25			
	19		123 15			
			14 00			
			205 06			
			17 20 75			
			59 11			
			16 56			
			3 70			
			4 10			
	22		12 00			
			611 41			
			20 79			
			130 40			
			78 21			
	23		213 545			
			204 33			
	26		13 12			
	27		147 29			
			63 94			
			96 00			
			13 07			
			462 42			
	28		54 20			
			27 05			
			199 92			
			622 26			
			51903 44			
			51903 44			

Electric Plant No. 8

1899	11	By Amm. 2 1/2 b	5 425.70	1899	25	By Amm. 8 b	9	521.74
Nov	21	bal	51.12 259.36	Dec	5	By	9	49.05
Dec	1		23.14 127.22	Nov	31	Balance		4499.39
1899	10		28.95 92					
Nov	1		27. 27.61					
Nov	9		45.12 22					
			5410.14					5410.14
1900	Apr	1 By Balance	4499.39	Nov	1	By Amm. formed	7	5857.03
	15	bal	57. 76.6					
			249.1					
	19		57. 1.10					
			61. 2.10					
	23		56					
May	11		57. 14.86					
			59. 2.50					
	15		71. 3.47					
			73. 1.75					
	19		55.72					
	23		77. 17.6					
	25		77. 1.05					
June	6		55. 10.44					
	12		77. 147.49					
	15	By bal	15. 7.73					
	19	Amm. 100	0.3					
	23	bal	97. 14.44					
July	6	By bal	17. 24.51					
	13		86.01					
	16	bal	105. 50					
	20		50					
	25		107. 53					
Aug	13	By bal	20. 61.33					
	15		21. 19.15					
	17	bal	117. 12.60					
			5.90					
	21		119. 24.40					
	24		121.8 549.67					
	27	By bal	22. 62.64					
	31	Amm. 100	22. 106.96					
Sept	1	bal By bal	23. 73.25					
	17	Amm. 100	23. 6.36					
	22	By bal	24. 5.92					
	25	bal	137. 5.36					
	26		139. 5.5					
	29	By bal	24. 114.44					
			545.104					545.103

Electric Plant

1899	Nov	5 By Amm. 100	46 555.03	1900	7	By Amm. 100	48	6725.15
	10	bal	143. 3.00					
	13		149. 1.72					
	20	Amm. 100	25. 3.05					
	23	By bal	397					
Nov	7	bal	145. 4.75					
	1	By bal	26. 6.51					
	14	Amm. 100	27. 17.45					
	20	By bal	27. 8.00					
Dec	6	By bal	29. 14.22					
	10	Amm. 100	10.66					
	22	By bal	33. 6.33					
1901	Jan	12	35. 13.32					
	19	Amm. 100	37. 12.32					
	21	By bal	39. 10.45					
	31	bal	103. 55					
Feb	5	By bal	40. 12.32					
	12	Amm. 100	41. 17.77					
	25	By bal	44. 9.73					
Mar	5	Amm. 100	44. 7.34					
		By bal	45. 8.44					
	23		10.45					
April	1		46. 25.52					
	10	Amm. 100	47. 97.44					
	23	By bal	47. 15.69					
May	2		48. 17.57					
	11	Amm. 100	49. 56.47					
	24	By bal	50. 17.24					
June	5		50. 25.26					
	12	Amm. 100	51. 56.53					
	17	bal	249. 30					
	24	By bal	51. 26.44					
July	6		52. 34.16					
	9	Amm. 100	53. 56.44					
	10	bal	279. 25.00					
	24	By bal	53. 40.52					
Aug	1		54. 31.54					
		Amm. 100	133.79					
	9	bal	293. 50					
	16		297. 75					
	21		25					
	23	By bal	57. 35.77					
Sept	6	bal	309. 1.00					
	7	By bal	58. 32.54					
			6725.15					6725.15

Electric Plant

1902 July	7	By Amis found	47	625.15	25	By Amis found	19	8273.30
	10	Shut down	59	6967				
	16	By Amis		3271				
	25	Land	315	56.15				
	25		319	51.20				
Oct	10	Shut down	62	3271				
	12	By Amis	63	5765				
	23			24.19				
Nov	1	Land	331	580				
	6		333	50				
	11	By Amis	65	38.53				
	12	Shut down	66	5169				
	14	Land	337	900				
				20.48				
				6.40				
	15		341.8	43290				
	23	By Amis	69	23.47				
Dec	9		70	51.55				
		Land	351	5170				
	11	Shut down	71	5102				
		Land	353	16.00				
	13		355	45				
	14			900				
	21	By Amis	71	6460				
1902 Jan	23	Land	357	16.02				
	3		361	22.59				
	6		365	4.25				
	6			19.4				
	8			47.57				
	9		367	9.95				
	10	By Amis	74	45.10				
	14	Land	369	21.00				
	15	Shut down	76	165.07				
	17	Land	371	54				
	22			396				
				420				
	23	By Amis	77	69.29				
	29	Land	373	53.36				
			375	5.56				
Feb	1		377	12.19				
				45				
				50				
	7		379	20				
				26.4				
				2273.30				

8273.30

Electric Plant

1902 July	7	By Amis found	47	8273.30	1902 Aug	31	By Amis found	21406.97
	8	By Amis	75	15276				
	12	Shut down	79	10274				
	24	By Amis	81	264.47				
	25	Land	383	777.20				
Aug	3		385	1651.62				
	7		387	644				
	8	By Amis	81	402.13				
	12	Shut down	82	669.23				
	15	Land	389	75				
			389	10.56				
	24	By Amis	83	509.69				
	27	Land	389	35.00				
			391	53.55				
	28			4.33				
			393	32.4				
	29	Shut down by	400	930.44				
	31	Land	393	5.00				
				21406.09				
1902 Sept	1	By Amis found	21406.09	By Amis found	4103745.24			
	2	Land	1	32.68				
			2	13.46				
			2	507.1				
			2	2703				
			2	4580				
			3	6.93				
	10	By Amis	40	1440.01				
		Land	6	9.19				
			7	1575				
			1	2574				
			9	5767				
	12	Shut down	40	145.79				
	17	Land	9	130.04				
				5.50				
				12.434				
	18	L & Shuttering	47	4464.1				
	19	Land	10	53.34				
	21		11	14004				
				450.1				
			12	6106.1				
	22	Shut down by	47	7534.51				
	24	Land	12	143.31				
				33.334				
			13	32.24				
				51745.64				

716

1174

Quarries (Standard, young trees, specimens) No. 1

1998	30	23	bank	25.2	1570.00	1998	16	of Standard	10	440.00
1998	2			27	120.79	1998	17	Basama	7	12469.25
1998	17		Standard M.B.	14	252.50					
	26		bank	29	31.27					
					31.36					
					35					
					15.13					
					15.00					
					25.96					
					303.19					
					16.27					
					31.2	270.00				
Feb	1			33	102.91					
	5			2	57.50					
	9				3.16					
	14			35	123.02					
	20				270.53					
					2.16					
					2.90					
					39.20					
					47.29					
				47	19.62					
					6.35					
					100.11					
					17.15					
					299.59					
					16.00					
	23			29	579.97					
	24				927.43					
	25				212.78					
					412.445.22					
					91.64					
Mar	7		Standard M.B.	13	2.55					
	11			11	40.59					
	9		bank	43.2	505.00					
					19.45					
	13			45	36.00					
					11.76					
	15			47	23.13					
					55.64					
	16				34.00					
	19			49	29.01					
	27		Op. tree	11	67.13					
			bank	49	62.63					
					14909.75					

12909.75

Quarries

1998	27	23	Bank	50	12469.25	1998	21	Op. Basama	12704.65
	28		bank	51	204.44				
	30				29.40				
	1				5.58				
					12704.65				
1998	1	23	Basama	12704.65		23	Op. bank	60	9.45
April	4		bank	53	1.50	22	Op. bank	15	49.50
	7		Standard	13	22	12	Bank	12	26153.36
	11		bank	53	42				
	12			55	77.00				
					13.19				
	20			61	260.00				
					2340.47				
	26			63	32.15				
	28		Standard M.B.	13	1000.00				
May	1		Op. tree	14	3.50				
	2		bank	65	30.75				
	5			67	6.42				
	14			69	39.13				
	18			71	3.99				
				73	3.67				
	19			75	22.50				
					76.4				
	21				2350.00				
	23			77	2.41				
	25			79	27.11				
June	6			80	24.49				
	12			81	35.4				
					4.50				
	14		Op. tree	15	10.00				
	19		Standard		36				
	21		Op. M.B.	16	172				
			bank	93	120.00				
				95	244.39				
					104				
	22				17.42				
	26			97	14.55				
					32.19				
					6.21				
	29				6.14				
	30			99	250.72				
July	5			101	242.45				
	6		Op. tree	17	1.25				
	12		bank	101	17.00				
					252.25				

252.25

Quarries

1928	12	2, Barrow	26153.56	1928	25	3, Ameg, fanned	5846637.51
July	13	Bay Area	171.455.56	Stk	26	Barb	137.15476
	14	Barb	105.247.303		27	"	139.2596
	15	Barb	171.4536		28	"	141.6450
	16	Barb	107.113.5	Aug	4	"	143.714132
	17	"	109.905		5	"	70.50
	18	"	64.60		6	Bay Area	65.80
	19	"	73.05		7	Barb	24.163710
	20	"	111.55		8	"	143.30
Aug	21	"	113.22		9	"	147.14.00
	22	"	134.75		10	"	27.54
	23	"	15.5		11	"	11.11
	24	"	43.46		12	"	12.49
	25	"	9.21		13	"	149.36110
	26	Bay Area	20.97742		14	"	22.42
	27	"	21.164525		15	"	84.32
	28	Barb	17.11.60		16	"	151.65.00
	29	"	44.96		17	"	1.55
	30	"	54		18	"	153.2499.40
	31	"	119.30		19	"	155.76
	32	"	5.25		20	Barb	25.170.11
	33	Barb	2.499.715		21	Bay Area	1946.07
	34	"	121.446		22	Barb	157.26.4
	35	"	46.20		23	"	1470
	36	"	123.2872		24	"	34.263
	37	Bay Area	22.143.009		25	"	27.01
	38	Barb	22.165.51		26	"	159.15.55
	39	"	125.790		27	"	161.63.44
	40	"	123.97		28	"	64.20
	41	"	127.109.20		29	"	10.62
	42	"	129.1.00		30	"	163.6.40
	43	"	2.52.50		31	"	165.11.20
	44	"	1.60		32	"	21.500
	45	"	291.42		33	"	16.02
Sept	46	"	133.59		34	Bay Area	26.2023.20
	47	Bay Area	23.1357.37		35	Barb	167.60.00
	48	Barb	133.976		36	"	60.00
	49	"	135.7.25		37	"	90.75
	50	Barb	23.112.29		38	Barb	27.332.70
	51	Bay Area	24.120.44		39	Bay Area	145.6.69
	52	Barb	137.1.07		40	"	167.44.66
	53	"	14.07		41	"	149.22.01
	54	"	20.95		42	"	279.40
	55	"	26.9.50		43	"	5.39
	56	"	46.47.81		44	"	5741.553

4647.81

Quarries

1928	25	3, Ameg, fanned	5846637.51	1928	26	Bay Area	26.3.22
Stk	26	Barb	137.15476	Stk	27	Barb	166.113.00
	27	"	139.2596		28	Bay Area	27.0.00
	28	"	141.6450		29	Barrow	294.5729.93
Aug	4	"	143.714132				
	5	"	70.50				
	6	Bay Area	65.80				
	7	Barb	24.163710				
	8	"	143.30				
	9	"	147.14.00				
	10	"	27.54				
	11	"	11.11				
	12	"	12.49				
	13	"	149.36110				
	14	"	22.42				
	15	"	84.32				
	16	"	151.65.00				
	17	"	1.55				
	18	"	153.2499.40				
	19	"	155.76				
	20	Barb	25.170.11				
	21	Bay Area	1946.07				
	22	Barb	157.26.4				
	23	"	1470				
	24	"	34.263				
	25	"	27.01				
	26	"	159.15.55				
	27	"	161.63.44				
	28	"	64.20				
	29	"	10.62				
	30	"	163.6.40				
	31	"	165.11.20				
	32	"	21.500				
	33	"	16.02				
	34	Bay Area	26.2023.20				
	35	Barb	167.60.00				
	36	"	60.00				
	37	"	90.75				
	38	Barb	27.332.70				
	39	Bay Area	145.6.69				
	40	"	167.44.66				
	41	"	149.22.01				
	42	"	279.40				
	43	"	5.39				
	44	"	5741.553				

5741.553

Mile Administration 2012

1950	20	20	29	11 41	1950	20	20	29	11 41
July	20	20	29	11 41	July	20	20	29	11 41
				4500					4449 75
				903					
July	1		33	11439					
				6000					
	5		10	25000					
				22500					
				269 25					
	9			241					
	12			5000					
	20		35	1430					
				646					
				690					
			37	253					
				367					
				1631					
	23		39	17772					
	24			24609					
	25			661					
				206					
May	2		41	27					
			43	20					
	3			25000					
				20000					
	6			50000					
	7			30					
		Sturthorn 12	11	1090					
	9	bank	43	4965					
	15		47	2977					
	16			469					
				420					
				400					
	27	bank	11	20064					
	28	bank	49	50000					
	29		51	26705					
				25000					
				22500					
1950				4449 75					
April	1	20	20	4449 75	April	1	20	20	4449 75
	4	bank	53	1000					4449 75
	7	Sturthorn	13	153					4572 49
	11	bank	53	49					
			53	1372					
	12			5700					
				4572 49					4572 49

Mile Administration

1950	20	20	29	11 41	1950	20	20	29	11 41
July	20	20	29	11 41	July	20	20	29	11 41
				4572 49					7961 18
				2866					
				1102					
				5144					
				514					
				951					
				40					
				61					
				109					
				951					
				250					
				63					
				334					
				9502					
				2143					
May	1	20	20	14	25275				
		bank	65	20103					
				50000					
				11557					
				612					
				67					
				1030					
				1704					
				69					
				1039					
				424					
				4400					
				12250					
		bank	14	39269					
		bank	71	1216					
				921					
				25423					
				50000					
				3335					
				3570					
				75					
				475					
				77					
				1270					
				1579					
				759					
				79					
				1690					
				22050					
				2646					
				105					
		Sturthorn	14	7625					
		bank	79	1561					
				494					
				6761					
				9069					
				7961 18					7961 18

Misc Administration

1900	May	29	Ans. forward	61	7991.54	1900	June	19	62	By draw	11	47.57
		30	bank	11	794		25	105	108.00		25.00	
					529	July	5		Bureau	61	1249.47	
					500.00							
					225.00							
		31			4.69							
June		1	By draw	151	662.55							
		4	bank	155	402							
					693							
					3.51							
		6	By draw	151	744.22							
			bank	151	561							
					13.28							
					2.65							
		7			171	104.45						
					171	514						
		12				3.67						
						6.00						
		13				24.41						
						16.95						
		14				2.06						
						1.05						
		16				2.17						
						2.57						
		17	By draw	151	1044.46							
		19	Ans. forward	161	20.44							
		21	bank	951	372							
					3.35							
					104.00							
					3.75							
					951	293.41						
		22				52.15						
						19.10						
					971	76.96						
						13.44						
						1.67						
		26				15.63						
						62.65						
		30			991	500.00						
						216.67						
						15						
						5.75						
July		6			101	129.80						
						12.00						
						12.62						
						12940.44						

12940.44

Misc Administration

1900	Aug	5	20	Bureau	62	1249.47	1900	Aug	13	63	By draw	17	19.50
				bank	101	274						20	15.75
						3.04						21	15.25
		6		By draw	17	956.81						21	34.25
		12		bank	103	114.62						64	1074.02
						16.62							
						16.59							
						12.17							
				By draw	17	604.22							
		16		bank	105	514.5							
						4.00							
		20				72.11							
		21		Ans. forward	17	72.11							
				bank	107	2.30							
						1.44							
						11.71							
						3.53							
		25				4.43							
						37.50							
		26				6.54							
						4.5							
		31			109	166.62							
					113	24.73							
Aug		2				216.67							
						500.00							
		3				24.50							
						46.25							
		4			115	12.40							
						1.80							
		13		By draw	20	539.55							
					21	653.60							
		15		bank	117	164.52							
						77							
		21			119	6.96							
						50.70							
						25.47							
		22			121	66.33							
						50.00							
		24				4.41							
						222.4							
					123	7.65							
						5.00							
						4.00							
						1.23							
		27		By draw	22	655.73							
						1225.747							

1225.747

Gardes & Railways

1900	6	25	County, ftd	67	34025.16	1900	13	25	County, ftd	67	50654.77
June	1		land	15.	3.59						
	7			15.	76.23						
	1			15.	96.72						
	1			17.	8.61						
	12				3.53						
					8.64.199						
					29.127						
					15.414.53						
					93.60						
				19.	14.400						
					63.06						
					62.72						
	13				8.13.50.00						
					34.71						
					72.7						
					22.4.00						
					54.72						
	14			91.	59.70						
	16				20.13						
	17		Bay, (low)	15.	23.61.49						
	19		Shut down	16.	157.65						
	21		Shut down	16.	45.36						
			land	91.	44.10						
				95.	113.97						
					41.60						
					96.20						
					12.6.44						
					12.27.4						
				95.	2.25						
	22				459.00						
	26			97.	64.40						
					21.50.1						
	29				19.77						
July	5			101.	5.72						
					2.63						
	6		Bay, (low)	17.	2702.49						
	12		land	105.	8.44						
	13				2.47.67.4						
					19.12.0						
					33.5.14						
					20.00						
					40.13						
			Bay, (low)	17.	14.22.53						
					50.6.57.77						
					50.6.54.77						

Gardes & Railways

1900	13	25	County, ftd	67	50654.77	1900	13	25	County, ftd	67	50654.77
July	13		land	105.	16.74						
	21		Shut down	17.	167.64						
	23		land	105.	23.15						
				107.	9.90						
					10.5.60						
					14.5.10						
	25				67.44						
	31				25.1.00						
					11.4.10						
				109.	8.12						
					72.96						
					10.5.01						
				111.	90						
Aug	2			113.	3.50						
	3				11.76						
	9			115.	17.5						
					87.00						
					1.5.60						
					22.4.10						
	13		Bay, (low)	20.	97.153						
	15			21.	745.42						
	17		land	117.	17.50						
	21				89.96						
					2.5.4						
				119.	44.03						
					15.22						
	24			121.	11.39						
				123.	41.45						
	27		Bay, (low)	22.	647.05						
	29		Shut down	22.	203.23						
	31		land	125.	207.50						
				127.	34.75						
				129.	109.253						
					520.42						
					21.10						
			Water, (Shut down)	22.	4.50.00						
Sept	4		Bay, (low)	23.	39.149						
	12		land	135.	169.92						
	14				2.53.01						
					5.04						
	17		Shut down	23.	132.06						
	22		Bay, (low)	24.	467.95						
	25		land	137.	6.61						
					573.92.57						
					573.92.57						

Grading

1900	26	27	Barb	31	19.15	1900	11	of	Barman	32.55
Feb	1			33	1.45					
Mar	27		Bay tree	11	11.25					32.55
Apr	1	23	Barman		32.55	Apr	1	of	Bay tree	26
	11		Barb	53	9.00	15		Barman	71	6069.37
	28			61	9.26					
					2.21					
May	1		Bay tree	14	17.43					
June	26		Barb	97	32.19					
July	6		Bay tree	17	140.53					
July	13				53.75					
	21		Barb		4.93					
	31		Barb	109	63.09					
Aug	9			115	43.46					
					9.31					
	13		Bay tree	20	249.49					
	15			21	447.69					
	21		Barb	117	44.96					
	24			121	4.21					
				123	20.72					
	27		Bay tree	222	27.93					
	28		Barb		29.12					
Sept	1		Bay tree	23	266.27					
	17		Barb		15.15					
	22		Bay tree	24	266.15					
	25		Barb	117	9.50					
	28			119	25.96					
Oct	4			113	70.50					
	11		Bay tree	24	262.01					
	14		Barb	149	257.16					
	20		Barb	25	2.03					
	23		Bay tree		711.75					
	29		Barb	117	25.44					
Nov	5			111	64.20					
	7		Bay tree	115	14.93					
	14		Barb	26	103.41					
	17		Barb	27	2.15					
	20		Bay tree	107	44.66					
	22		Barb	27	410.39					
	22		Barb	119	21.54					
Dec	6		Bay tree	29	360.44					
	10		Barb		37.5					
	15		Barb	77	62.04					
					6109.37					6109.37

Grading

1900	15	23	Barman	70	6069.37	1901	21	of	Bay tree	125
Dec	15		Barb	117	1471	Dec	12		Barman	72
	22		Bay tree	33	24.40					15000.43
Jan	9		Barb	191	24.27					
	12		Bay tree	25	215.57					
	19		Barb	35	619					
	21		Bay tree	39	296.53					
Feb	1			40	49.77					
	12		Barb	41	5.45					
	25		Bay tree	44	44.45					
Mar	1			45	127.25					
	23				33.193					
Apr	1			46	1126.44					
	10		Barb	46	57.14					
	23		Bay tree	47	1130.73					
May	9			48	530.46					
	11		Barb	49	59.70					
	24		Bay tree		515.51					
June	7		Barb	25	12.78					
	7		Bay tree	38	534.49					
	12		Barb	87	61.71					
	17		Barb	269	76.5					
	24		Bay tree	57	554.13					
	27		Barb	275	2.50					
July	6		Bay tree	522	297.05					
	9		Barb	53	73.07					
	11		Barb	279	5.15					
	14		Bay tree	53	460.04					
	21		Barb	283	5.00					
Aug	1		Bay tree	54	410.37					
	1		Barb		52.34					
	9		Barb	293	5.00					
	23		Bay tree	297	5.50					
	25		Barb	57	575.75					
	25		Barb	301	5.00					
Sept	6			309	9.00					
	7		Bay tree	54	514.50					
	10		Barb	59	19.90					
	12		Barb	311	1.62					
	20			313	1.00					
	16		Bay tree	59	94.04					
	26		Barb	37	30.34					
Oct	10		Barb	622	4.49					
	12		Bay tree	63	110.48					
					15001.65					15001.65

Store Room No 18

1900	May	26	20	Land	31	15.15	1900	May	1	of	Landre	11	100	51
						152.44			31		Bacume		2017	51
						19.50								
						19.45								
May		16		Landre	10	150.41								
		30		Land	35	1166								
						972								
						1501								
					37	50.47								
						322								
		24			39	75								
		24				490								
		24				235								
						75								
					41	514								
						180								
						15402								
						2614								
May		9			45	1572								
		15				1357								
					47	4925								
						5922								
		16				562								
						492								
						621								
		19				1522								
					49	1945								
		24			51	13054								
						239								
						21432								
						211432								
						211432								
May		1	30	Bacume	2017	41	May	7	of	Landre	13	65	52	
		11		Land	35	345		30		Bacume	75	2142	50	
		16			51	25								
						16.44								
						10.62								
						565								
		19				971								
					59	26.40								
						4994								
					61	2.07								
		23				3.75								
						10.64								
		30			63	4994								
						5624								
						204587								
						204587								
						224500								

Stone Round

1910																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					</
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Store Room

1920	21	2	Balance	3764.09	1920	21	2	of Cash	97	510	57
June			bad	95	49.59	July	21	Lawrence	17	1428	64
					13.50	Aug	13	By Cash	20	19.50	54
					3.14			Balance)	77	823.15	74
					4.94					8706.90	
					1.70						
					71.20						
					16.60						
					4.15						
30				97	2.07						
					5.77						
					11.91						
July	5			101	1.25						
					63.50						
					13.03						
					15.34						
					2.20						
					2.20						
					119.40						
13				105	2.16						
					24.16						
16				105	1.92						
23					15.64						
				107	13.03						
					30.62						
					12.01						
					70.64						
					139.94						
25					52.43						
31				109	41.64						
					13.51						
					77.42						
					3.62						
Aug	2			115	21						
	3				3.14						
					6.27						
9				115	73.03						
15		By Cash		20	52.25						
15				21	26.12						
17		bad		117	2.25						
21					9.57						
				119	46.27						
					17.2						
					6.29						
					5644.05						

5644.05

Store Room

1920	21	2	Balance	3706.90	1920	21	2	of Cash	97	510	57
Aug			bad	119	23.09	Aug	21	Lawrence	17	1428	64
					110.2			By Cash	20	19.50	54
					35.41			Balance)	77	823.15	74
					1.60						
					27.19						
					9.19						
					46.99						
					35.21						
					6.29						
					155.19						
					10.74						
					17.09						
					543.52						
					58.45						
					46.45						
					30						
					6.57						
					6.21						
					70.14						
					11.16						
					3.26						
					31.79						
					5.65						
					4.47						
					25.61						
					4.60						
					12.94						
					14.14						
					6.69						
					7.41						
					90.59						
					52.65						
					29.20						
					102.50						
					3.29						
					75.11						
					1.96						
					46.16						
					17.20						
					19.54						
					54.54						
					59.03						
					3.23						
					8.02						
					36.70						
					5539.57						

470

5539.57

Equipment & Maintenance #9

1970 May	26	27	Bank	51	1125	1970 May	31	By Balance	5005.55
27	1	.	.	53	126.40				
	2	.	.	59	606.42				
	3	.	.	41	174.70				
May	7	.	.	43	450.00				
	8	.	.	.	16.85				
	9	.	.	.	81010.00				
	11	.	.	.	373.30				
	10	.	.	45	12.34				
	15	.	.	.	19.40				
	16	.	.	10	165.16				
	17	.	.	47	112.94				
	18	.	.	.	53.7				
	19	.	.	.	63.75				
22	.	.	.	49	154.92				
24	.	.	.	51	11.50				
30	.	.	.	.	10.92				
	.	.	.	.	45.00				
	.	.	.	.	31.94				
					5005.55				5005.55
April	1	By Balance		5005.55	By +	By Amty paid	11	1171.92	
	4	Bank	53	20.54					
	7	Bank	13	61.44					
	12	Bank	55	264.00					
	16	.	57	179.79					
	19	.	.	74.21					
	.	.	.	54.10					
	.	.	.	42.91					
	.	.	.	1.04					
	.	.	59	4.5					
	.	.	.	24543.00					
	.	.	.	11.76					
	.	.	.	203413.00					
	23	.	61	100.41					
	26	.	.	4.21					
	30	.	63	110.55					
	.	.	.	42.51					
	.	.	.	26.2					
	1	.	.	55.2					
May	2	.	65	1.76					
	4	.	.	53.5					
	5	.	.	30.4					
	6	.	.	4.16					
	.	.	.	60.32					
				1171.92					1171.92

Equipment & Maintenance

1970 May	4	By Amty forward	1171.92	1970 June	6	By Amty forward	1621.53
	.	Bank	65.16	246.67			
	7	.	67	3.53			
	11	.	.	15.64			
	.	.	69	1.35			
	.	.	.	3.26			
	.	.	.	4.56			
	.	.	.	3.14			
	14	.	.	56.75			
	.	.	.	120.74			
	17	By Amty	14	177.23			
	.	Bank	71	174.40			
	.	.	.	1.44			
	.	.	.	16.74			
	.	.	.	31.56			
	.	.	.	3.64			
	.	.	.	164.00			
	.	.	.	35.24			
	18	.	.	14.12			
	.	.	73	1.95			
	19	.	.	5.02			
	.	.	.	15.00			
	.	.	.	63.10			
	.	.	75	265.00			
	.	.	.	1165.01			
	.	.	.	8.42			
	.	.	.	7.74			
	.	.	.	32.93			
	21	.	.	21305.79			
23	.	.	77	34.75			
.	.	.	.	12.79			
.	.	.	.	4.95			
.	.	.	.	64.20			
.	.	.	.	61.24			
24	.	.	.	61.90			
.	.	.	79	36.86			
.	.	.	.	14.90			
.	.	Bank	14	71.77			
27	.	.	79	24.41			
29	.	.	.	3.92			
30	.	.	41	1.3			
.	.	.	.	2.2			
June	2	By Amty	15	373.97			
6	.	.	15	564.43			
				1621.53			1621.53

Equipment & Maintenance

1960	1960			1960	1960		
June	6	2, Army form	1625.53	Aug	15	2, Army form	55.576.04
		Land	15.945				
			10975.00				
			990				
	7		20.66				
			7.53				
	12		22.75				
			1071.00				
			13093.50				
			1025.00				
	16		91.25				
			59.10				
	18	Army form	15.409.20				
	19	Standard	16.7296				
	21	Land	93.1525				
			139000				
			146.50				
			95.410				
			5509				
			964				
			500				
	22		97.5241				
			704.40				
	26		32.20				
			55.61				
	29		14.95				
July	5		101.1135				
			11.53				
			559				
	6	Army form	17.556.07				
	12	Land	111.640				
	13		103.5716				
		Army form	17.404.46				
	16	Land	105.725.94				
	20		54				
	21	Standard	17.144.09				
	25	Land	117.139				
	31		109.720.74				
			111.514.10				
Aug	2		113.766				
	9		115.43.06				
			9.31				
	13	Army form	20.274.44				
	15		24.46				
			2576.04				

Equipment & Maintenance

1960	1960			1960	1960		
Aug	15	2, Army form	2764.04	Aug	17	2, Army form	211
		Land	17.211				
			625				
	21		4496				
			104				
			119.4.50				
			1.47				
	22		54				
			12.1.25				
	24		258.2.21				
			4.61				
			13.40				
			12.3.1.14				
			20.72				
	27	Army form	22.254.70				
	28	Standard	22.164.50				
Aug	31	Land	125.15.21				
			4.41				
			161				
			127.4.46				
			23.63				
			56.30				
			129.13.29				
			9.60				
			6.44				
			13.1.50				
	1	Army form	23.273.60				
	12	Land	133.1.00				
	12		135.120.00				
			549				
	14		50.1				
			293				
	17	Standard	23.142.34				
	22	Army form	24.2.103				
	25	Land	117.12.59				
			9.80				
			2.2.24				
	27		139.272.63				
	27		141.2.20				
			22.29				
	4		143.70.50				
			2.44				
	5	Army form	24.205.29				
	10	Land	143.4.50				
	12		145.70				
			17.39				
			200.277.03				

Steam Plant, m6

July	5	2	Barb	53	164	July 31	2	Bacon	744
	9			12					
	20			47	568				
					744				744
April	1	2	Bacon		744	July 24	2	Barb	39
	19		Barb	51	4260	April 25	2	Barb	46
May	1		Barb	25	1074				25
	7		Barb	47	1207	July 7	2	Barb	47
	23			17	665	June 12	2	Bacon	47
June	21	April 8 PM		16	2241				6672
Aug	10		Barb	21	53				
Oct	23		Barb	25	7254				
Nov	4		Barb	26	4775				
	14		Barb	27	1646				
	20		Barb	27	3757				
Dec	6		Barb	29	5974				
	12		Barb	33	11351				
July	12		Barb	35	5235				
	17		Barb	37	11440				
	19		Barb	38	9661				
	21		Barb	39	21592				
Feb	4			40	17466				
	12		Barb	41	1727				
	14		Barb	41	935				
	25		Barb	44	2444				
	28		Barb	49	4650				
May	4		Barb	48	3056				
	12		Barb	45	5962				
	22		Barb	22	565				
	27		Barb	45	7461				
April	1		Barb	28	750				
	10		Barb	46	1946				
	23		Barb	47	2471				
	29		Barb	47	50				
Aug	9		Barb	44	726				
	10		Barb	45	17314				
	11		Barb	49	24				
	24		Barb	49	1950				
	25		Barb	21	4115				
June	5		Barb	25	5136				
	12		Barb	30	307				
			Barb	31	12				
					6854.15				6854.15

Steam Plant

July	12	2	Bacon	45	6077.44	July 7	2	Barb	504	25
	17		Barb	26	525	July 15	2	Barb	504	25
	19			27	6772				504	25
	24		Barb	31	4555				504	25
	25		Barb	29	4250				504	25
July	6		Barb	32	1222				504	25
	9		Barb	33	2567				504	25
	10		Barb	27	342				504	25
	11			27	30				504	25
	24		Barb	32	10475				504	25
	31		Barb	203	6450				504	25
Aug	1		Barb	34	3705				504	25
	2		Barb	34	2566				504	25
	3		Barb	27	374				504	25
	5			27	25				504	25
	6			29	1530				504	25
	23		Barb	37	4415				504	25
Sept	7			34	1346				504	25
	10		Barb	39	4446				504	25
	12		Barb	39	9344				504	25
	15			31	190				504	25
	16		Barb	39	2995				504	25
	24		Barb	33	1852				504	25
	26			37	5494				504	25
					995				504	25
				39	2625				504	25
				39	65745				504	25
Oct	10		Barb	62	1666				504	25
	12		Barb	63	3741				504	25
	23				2606				504	25
	29		Barb	32	287				504	25
Nov	1			33	1950				504	25
	6			33	125				504	25
	7			33	91				504	25
	11		Barb	65	1200				504	25
	12		Barb	66	4122				504	25
	23		Barb	69	235				504	25
Dec	9			70	7145				504	25
	11		Barb	71	1845				504	25
	12		Barb	71	1766				504	25
1902	11		Barb	73	1295				504	25
July					5920.00				504	25
	10		Barb	74	1940				504	25
	15		Barb	76	2441				504	25
					6680.12				504	25

Steam Plant.

1922 July	15. 27. Barometer	57.6648.67	1922 Aug. 27. 27. Barometer	57.627.69
	23. " Pay due	77. 80.04		
	24. " " "	52. 51.47.0		
	25. " " "	57. 50.51.62		
July	1. " " "	57. 51.19		
	1. " Pay due	75. 112.6		
	12. " " "	79. 127.6		
	15. " " "	511. 1.76		
	24. " Pay due	81. 164.25		
Aug	3. " " "	505. 1.94		
	7. " " "	517. 6.44		
	7. " Pay due	81. 296.70		
	12. " " "	122. 127.10		
	15. " " "	519. 5.20		
	24. " Pay due	83. 253.37		
	27. " " "	591. 9.65		
		57653.69		57627.69
April	1. 27. Barometer	57.657.69	Aug. 27. 27. Barometer	57.627.69
	2. " " "	1. 596.67	25. " " "	95. 319.83
	2. " " "	2. 80. 50. 30. Barometer	25. " " "	95. 45.41
	10. " Pay due	66. 210.66		57. 717.43.39
	11. " " "	6. 59.34		
	12. " " "	66. 136.27		
	17. " " "	9. 134.10		
	19. " " "	10. 175.80		
	19. " " "	8. 102.064		
	21. " " "	12. 49.5		
	21. " " "	12. 175.1		
	21. " " "	12. 61.06		
	25. " Pay due	27. 261.70		
	26. " " "	13. 50.0.25		
Aug	9. " Pay due	40. 411.92		
	10. " " "	1. 81.21		
	21. " " "	91. 216.34		
	21. " " "	17. 3.00		
	22. " " "	19. 15.29		
	24. " " "	9. 7.90		
	27. " Pay due	91. 506.07		
June	7. " " "	21. 7.65		
	10. " " "	9. 4.5		
	10. " Pay due	94. 529.64		
	12. " " "	95. 154.74		
	13. " " "	22. 7.45		
	24. " " "	95. 20.66		
	25. " Pay due	96. 501.11		
		7649.73		7249.73

Steam Plant.

1922 July	1. 27. Barometer	57.657.69	1922 Aug. 25. 27. Barometer	57.627.69
	1. " " "	57. 47.262	25. " " "	99. 54.52
	10. " " "	95. 126.95	24. " " "	144. 24.00
	22. " " "	22. 10.63		110. 76.94
	23. " " "	111. 15.1		
	24. " Pay due	99. 432.52		
	25. " " "	29. 8.00		
	25. " " "	30. 17.34		
	25. " " "	1. 1.60		
	25. " " "	31. 5.10		
Aug	5. " " "	34. 72.220		
	9. " Pay due	101. 491.44		
	11. " " "	102. 93.37		
	21. " " "	34. 15.44		
	22. " " "	1. 15.45		
	25. " Pay due	103. 508.65		
	25. " " "	35. 236.16		
Sept	1. " " "	105. 444.60		
	1. " " "	34. 7.92		
	1. " " "	1. 90		
	10. " " "	104. 73.37		
	10. " " "	29. 90.32		
	19. " " "	40. 175		
	19. " " "	1. 9.00		
	19. " " "	41. 3.57		
	20. " Pay due	107. 466.19		
Oct	2. " " "	42. 75.43.30		
	4. " " "	7. 7.92		
	4. " " "	7. 7.62		
	4. " " "	43. 1.35		
	7. " " "	1. 15.52		
	7. " " "	44. 25.00		
	7. " " "	45. 22.4		
	7. " " "	1. 322.66		
	7. " " "	7. 7.4		
	7. " " "	1. 1.44		
	10. " Pay due	109. 499.73		
	11. " " "	110. 125.17		
	14. " " "	46. 22.52		
	21. " " "	47. 3.50		
	21. " " "	1. 6.44		
	22. " Pay due	111. 531.70		
	24. " " "	42. 342.39		
	24. " " "	1. 6.0		
		7777.58		7777.58

Shipping May (Other Months Shipping Selling Prices) 1902

1902	July	9	2 1/2	bacon	53.	1,44	1902	May	31	of	Bacon	501.31
	July	15			45.29	67						501.31
					381.31							501.31
	April	1	2 1/2	Bacon		501.31		May	25	of	Discontinued	21
		4		bacon	53.	10.58		May	15			52
		7		bacon	13.	1.40		May	25		Bacon	91
	May	1		bacon	14.	4.63						479.21
		7		bacon	67.8	416.10						
		24		bacon	14.	41						
	June	2		bacon	15.	2.50						
		19		bacon	15.	15.48						
	July	17		bacon	17.	9.75						
		18				51.59						
		21		bacon		290.95						
	Aug	24		bacon	121.	7.65						
		27		bacon	22.	132						
		27		bacon		17						
	Apr	1		bacon	23.	5.25						
		17		bacon		17.21						
		24		bacon	24.	3.60						
	Oct	8		bacon		770						
		20		bacon	25.	116						
		23		bacon		1530						
	Nov	1		bacon	26.	386.81						
		14		bacon	27.	6.75						
		20		bacon	27.	240.25						
	Dec	6		bacon	29.	347.10						
		10		bacon		77.25						
				bacon	175.	49.59						
					177.	2.45						
		15			179.8	763.04						
		15			181.	3.20						
		21			183.8	135.75						
						330						
	Dec	22		bacon	53.	506.99						
	1901	10		bacon	194.	109.21						
						632						
		12		bacon	55.	577.02						
		17		bacon	197.	55.10						
		18				9.05						
		19		bacon	54.	477.96						
		21		bacon	57.	473.40						
		23		bacon	197.	550						
		24			201.	162.7						
					507.036							

587036

Shipping May

1901	May	26	2 1/2	Bacon	479.21	1901	May	9	2 1/2	bacon	454	59
		30		bacon	203.			9		bacon	92	231.45
					10.66							
					209.	413.55						
	July	1		bacon	40.	413.00						
		5		bacon	209.	14.50						
		12		bacon	41.	179.33						
		15		bacon	213.	1.44						
		25		bacon	44.	762.26						
		26		bacon	27.	4.50						
		27			219.	14.00						
	Aug	6		bacon	223.	55.50						
		8		bacon	44.	25.75						
				bacon	45.	103.55						
		9		bacon	125.	22.07						
		21			229.	7.75						
						2.50						
		22			231.	33.42						
		23		bacon	45.	59.05						
				bacon	231.	511.55						
	April	5			237.	9.70						
		8		bacon	46.	120.16						
		10		bacon		566						
		12		bacon	241.	4.65						
						2.15						
		23		bacon	47.	54.75						
		26		bacon	243.	113.10						
	May	9		bacon	408.	130.53						
		11		bacon	49.	29.44						
		27		bacon		309.69						
		27		bacon	261.	2.55						
	June	7			265.	111.55						
				bacon	50.	99.43						
		12		bacon	51.	211.42						
		14		bacon	267.	25.24						
		17			269.	176						
		24		bacon	51.	117.97						
	July	6			52.	724.34						
		9		bacon	53.	114.41						
		10		bacon	277.	50.05						
		24		bacon	53.	103.75						
					54.	723.54						
	Aug	1				15.45						
				bacon	27.	50						
		2		bacon	27.	1319.37						

131937

Spring 1897

1897	2	3	Balanced	91.531475	1897	7	By McIntosh	104.26074
Oct	3		bal	109.235500	Nov	23	By McIntosh	104.26074
				120.47				
	7			291.420				
	14			295.830				
	23		By McIntosh	57.241475				
	30		bal	59.640				
	7		By McIntosh	57.117821				
	10		By McIntosh	57.7253				
	12		bal	511.4445				
				511.640				
	20			513.1530				
	16		By McIntosh	57.3364				
	24		bal	513.1414				
	25			519.504				
Oct	3			521.659				
	10		By McIntosh	62.565				
	12		By McIntosh	63.5620				
	21		bal	125.1590				
	23			63.15696				
	29			527.912				
Nov	1			531.737				
	6			533.560				
				1564				
	7			335.173				
				85809.25				
	8			537.330				
	11		By McIntosh	65.14134				
	12		By McIntosh	66.1443				
	14		bal	539.140				
				04				
	15			341.125124				
	22			344.594				
	23		By McIntosh	69.13243				
	27		bal	445.171377				
Dec	5		By McIntosh	704.7164				
	9		By McIntosh	714.7194				
	11		By McIntosh	357.15620				
			bal	358.75				
	14			358.2189				
	21		By McIntosh	71.1253				
	23		bal	357.104				
				120				
				12300.52				

12300.52

Mill Machinery No 5

1897	17	2	bal	558.5578	1897	31	By McIntosh	604.71
Dec	27		By McIntosh	112.4000				
Nov	9		bal	436.940				
	31		By McIntosh	114.15921				
				604.71				
1898	1	2	By McIntosh	604.71	Jan	6	By McIntosh	604.71
Apr	12		bal	558.6500				
				558.4035				
				558.344				
	19			573.4322				
				573.173				
				573.140				
	30			643.1094				
May	1		By McIntosh	143.17225				
	2		bal	652.215				
				652.31640				
	11			673.7145				
				673.244				
	14			673.777				
	17			712.24300				
				712.110				
				712.1943				
				712.1140				
	15			712.542				
				712.430				
	17			712.874				
				752.5650				
				811.4447				
				812.94				
	21			812.2445				
	23			772.353				
				772.82				
				772.4041				
				772.3411				
	24			772.44672				
				772.1773				
				772.1260				
				772.1200				
	25			772.42077				
				772.7944				
	29			772.544				
June	2		By McIntosh	152.250				
	6		bal	152.20431				
				152.2225				
				4217.50				

4217.50

Mile Machinery

1920	June 6	By Amos Ford	421.70	1920	July 31	By Amos Ford	13126.19
	12	Bail	7.8				
			60				
			171.50				
			14.85				
			20.10				
			323.54				
			135.59				
			164.91				
			41.2				
			44.19				
			122.72				
			212.9				
			1.99				
			16.74				
			9.44				
	14	By Amos	15.2				
	19	Stewchorn	2.2				
	21	Bail	92.0				
			20.25				
			9.72				
			95.2				
			5.44				
	22		56.49				
			13.50				
			97.2				
			8.25				
			14.41				
	26		139.24				
	29		1.45				
	30		99.0				
			14.9				
			125.73				
			2537.204				
July	6	By Amos	7.2				
		Bail	34.99				
	12		101.2				
	13		104.2				
		By Amos	17.2				
	16	Bail	170.52				
	20		105.2				
			29.51				
			5.55				
	21	Stewchorn	7.2				
	23	Bail	105.2				
			17.62				
			107.2				
	25		2.2				
			32.54				
	27		109.2				
			7.71				
			90.09				
			270.22				
			15420.19				

13126.19

Mile Machinery

1920	July 31	By Amos Ford	94	13126.19	1920	July 14	By Amos Ford	96	21449.79
		Bail	109.2	50.65					
			2	142.22					
			111.2	1.50					
			115.2	106.15					
	2		2	95.70					
	3		2	194.40					
			115.2	275.96					
	9		2	55.74					
			2	1.56					
			2	2.60					
			2	11.03					
	13	By Amos	20.2	443.46					
	15		21.2	659.41					
	17	Bail	117.2	12.29					
			2	9.10					
			2	165.30					
	21		119.2	450.24					
			2	115.59					
			2	20.46					
	22		2	1.05					
			121.2	0.05					
	24		2	89.20					
			2	134.91					
			123.2	67.16					
	27	By Amos	222.2	667.14					
	28	Stewchorn	2	231.05					
	31	Bail	125.2	469.71					
			127.2	16.59					
			2	26.65					
			129.2	19.2					
			2	669.34					
			2	2.25					
			2	2.43					
			131.2	6.24					
			2	7.92					
			2	54.74					
			127.2	205.24					
			133.2	17.55					
	6	By Amos	222.2	503.44					
	12	Bail	133.2	39.1					
			135.2	544.97					
			2	9.15					
	14		2	52.74					
			21449.79						

21449.79

Elizabeth Stone

1898 July	4	27	1257600	1898 July	4	by Cash Entry	10	1257600
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David J. Linnell

1898 July	4	27	441400	1898 July	4	by Cash Entry	10	441400
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Wm. F. Linnell (L.C.)

1898 July	4	27	729260	1898 July	4	by Cash Entry	10	729260
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William Washington Jr. 455 or 520th St.

1898 June	15	21	400 00	1898 July	31	by Cash Entry	22	450 00
Aug	31		127. 50 00					
			450 00					450 00

W. J. Carlin (L.C.) 514 Paul Ave. N.D.

1898 June	22	27	49 50	1898 July	4	by Cash Entry	23	95 30
July	19		155. 45 00					
			95 30					95 30

John W. Bloni

1898 Dec	22	27	7905 00	1898 Dec	22	by Cash Entry	9	7905 00
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Serranthal Herbert

1898 Dec	22	27	13440 57	1898 Dec	22	by Cash Entry	9	13440 57
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John W. Bloni (L.C.)

1898 Dec	22	27	1575 13	1898 Dec	22	by Cash Entry	9	1575 13
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Stewart Smith

1898 July	4	27	12702 00	1898 July	4	by Cash Entry	10	12702 00
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Sarah A. Berger

1898 July	4	27	9745 19	1898 July	4	by Cash Entry	10	9745 19
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Apr 1/1900

Gustave J. Schnitzler

Society of Friends

1899	June 30	To Accumulating	2.200 00	1899	June 15	By bank	2.200 00
July 1				July 31			10 100 00
Aug 1			4.100 00	Aug 30			14 100 00
Oct 1			6.100 00	Oct 2			20 500 00
Nov 1			7.500 00	Nov 15			250 00
Dec 1			10 100 00	Dec 15			170 500 00
Jan 1			11 500 00	Jan 14			190 500 00
Feb 1			12 500 00	Feb 14			210 500 00
			250 00				250 00

Edgar L. Cook

Apr 1/1900

Morrison Ba

1899	June 30	To Accumulating	1.200 00	1899	June 15	By bank	2.200 00
July 1			3.500 00	July 27			10 1500 00
Aug 1			5.500 00				1500 00
Oct 1			7.500 00				1500 00
Nov 1			1500 00				1500 00
Dec 1			10 1000 00	Dec 15			110 1000 00
Jan 1			30 500 00	Jan 14			75 1500 00
Feb 1			36 500 00				2500 00
Mar 1			41 500 00				2500 00
			2500 00				2500 00

Apr 24/1900

Luther J. Bent

Society of Friends

1899	June 30	To Accumulating	1.400 00	1899	June 15	By bank	2.400 00
July 1			3.200 00	July 31			12 4000 00
Aug 1			5.200 00	Aug 30			14 2000 00
Oct 1			7.200 00	Oct 2			20 2000 00
Nov 1			600 00	Nov 15			150 5000 00
Dec 1			10 1000 00	Dec 14			42 4500 00
Jan 1			30 1500 00	Jan 15			56 1500 00
Feb 1			41 1500 00	Feb 15			75 1200 00
			7500 00				7500 00
Aug 1			55 1200 00	Aug 16			34 12400 00
Sept 1			60 1200 00	Sept 5			34 1200 00
Oct 1			67 1200 00	Oct 21			50 1200 00
Nov 1			75 1200 00	Nov 1			76 1200 00
Dec 1			1250 00	Dec 1			6050 00
			6050 00				1250 00

Edwin J. Schirley

Nov 10 1899

Society of Friends

1899	June 30	To Accumulating	2.500 00	1899	June 15	By bank	2.5000 00
July 1			4.2500 00	July 31			12.2500 00
Aug 1			6.2500 00	Aug 30			12.5000 00
Oct 1			8.2500 00	Oct 2			7500 00
Nov 1			7500 00				7500 00

Orig. 1/1/1900

James Gayley Distilling Co

1899	1899	1899	1899	1899	1899
June 30	2,000.00	1,100.00	June 12	By bank	2,000.00
July 1		400.00	July 6		120.00
Aug 2		600.00	Aug 3		160.00
Nov 2		700.00	Nov 26		300.00
		1500.00			1500.00
1900			1900		
Jan 10	2,000.00	1900.00	Jan 1	By bank	110.00
Feb 15		300.00	Feb 6		70.00
Mar 15		360.00	Mar 23		250.00
Apr 15		420.00			200.00
May 15		250.00			
					200.00

July 25/1900

J. Lewis Thomas 100 Wilson St. New York

1899	1899	1899	1899	1899	1899
June 30	2,000.00	1,100.00	June 21	By bank	2,000.00
July 31		400.00	July 1		120.00
Aug 2		600.00	Aug 12		160.00
Nov 2		700.00	Nov 18		300.00
		1500.00			1500.00
1900			1900		
Jan 10	2,000.00	1900.00	Jan 12	By bank	110.00
Feb 15		300.00			70.00
Mar 15		360.00			250.00
Apr 15		420.00			200.00
May 15		250.00			
					200.00

Rufus H. Wood

Oct. 21/1900

Hammond, Ind. N.Y.

1899	1899	1899	1899	1899	1899
June 30	2,000.00	1,100.00	June 24	By bank	2,000.00
July 1		500.00	July 1		120.00
Aug 2		700.00	Aug 3		160.00
Nov 2		1,000.00	Nov 18		300.00
		300.00			300.00
1900			1900		
Jan 10	2,000.00	1900.00	Jan 22	By bank	110.00
Feb 15		320.00	Feb 15		140.00
Mar 15		350.00	Mar 25		210.00
Apr 15		430.00			500.00
May 15		500.00			
					500.00

Chester R. Beard

Burlington, N.Y.

1899	1899	1899	1899	1899	1899
June 30	2,000.00	1,100.00	June 26	By bank	2,000.00
July 1		500.00	July 1		120.00
Aug 2		700.00	Aug 2		160.00
Nov 2		1,000.00	Nov 18		300.00
		300.00			300.00
1900			1900		
Jan 10	2,000.00	1900.00	Jan 24	By bank	110.00
Feb 15		320.00			140.00
Mar 15		350.00			210.00
Apr 15		430.00			500.00
May 15		500.00			
					500.00

June 4/1900

Henry L. Townsend

420 Chestnut St. Phila

1899					1899					
June	30	Refersment, Ap	2	5000 00	June	25	By	back	2	5000 00
July	1		4	5000 00	July	1			12	4000 00
Aug	2		6	5000 00	Aug	2			16	4000 00
Sept	2		4	5000 00	Sept	2			16	4000 00
				12000 00						12000 00
1900					1900					
Aug	10	Assessment, Ap	20	5000 00	Aug	10	By	back	114	5000 00
Aug	15		32	5000 00	Aug	17			174	4000 00
Sept	15		54	5000 00	Sept	21			196	4000 00
Oct	15		48	5000 00	Oct	20			214	4000 00
				20000 00						20000 00

July 13/1900

B. J. Townsend Jr.

420 Chestnut St. Phila

1899	30	Assessment, Ap	2	2000 00	1899	June 23	By	back	2	2000 00
July	1		4	1000 00	July	1			10	1000 00
Aug	2		6	1000 00	Aug	2			16	1000 00
Sept	2		4	1000 00	Sept	2			16	1000 00
				5000 00						5000 00
1900	10	Assessment, Ap	20	2000 00	1900	Aug 11	By	back	114	2000 00
Aug	15		32	1000 00	Aug	17			174	1000 00
Sept	15		54	1000 00	Sept	21			196	1000 00
Oct	15		48	1000 00	Oct	20			214	1000 00
				5000 00						5000 00

Henry Van Beil

420 Chestnut St.

1899	30	Assessment, Ap	2	2000 00	1899	25	By	back	2	2000 00	
July	1		5	1000 00	Aug	1			10	1000 00	
Aug	2		6	1000 00	Aug	5			16	1000 00	
Sept	2		4	1000 00	June	1			22	1000 00	
				5000 00						5000 00	
1900	10	Assessment, Ap	20	2000 00	1900	Aug	10	By	back	114	2000 00
Aug	15		32	1000 00	Aug	22			172	1000 00	
Sept	15		54	1000 00	Sept	25			194	1000 00	
Oct	15		48	1000 00						5000 00	
				5000 00						5000 00	

W. D. Frickmuth

July 13/1900

420 Chestnut St.

1899	30	Assessment, Apr	1	2,000 00	1899	June 25	By	back	2	2,000 00
July	1		4	1,000 00	July	1			10	1,000 00
Aug	2		6	1,000 00	Aug	2			16	1,000 00
Sept	2		7	1,000 00	Sept	2			16	1,000 00
				5,000 00						5,000 00
1900	10	Assessment, Apr	19	2,000 00	1900	Aug 10	By	back	114	2,000 00
Aug	15		30	1,000 00	Aug	15			174	1,000 00
Sept	15		56	1,000 00	Sept	21			196	1,000 00
Oct	15		42	1,000 00	Oct	20			214	1,000 00
				5,000 00						5,000 00
1901	1	Assessment, Apr	54	1,200 00	1901	Aug 5	By	back	144	1,200 00
Aug	15		60	1,200 00	Aug	17			204	1,200 00
Sept	15		67	1,200 00	Sept	21			270	1,200 00
Oct	15		75	1,200 00	Oct	20			345	1,200 00
Nov	31	Assessment	12	50 00	Nov	31			357	1,200 00
				6,250 00						6,250 00
Dec	31	Assessment	12	1,250 00	Dec	31			1,250 00	

L. Boyd Carrigan *Whitaker's* *Shim*

1899	June 22	By	land	1899	June 22	By	land
50	3/4	Amusement	2. 2000 00	50	3/4	Amusement	2. 2000 00
1	.	.	5. 1000 00	1	.	.	5. 1000 00
2	.	.	5. 1000 00	2	.	.	5. 1000 00
3	.	.	7. 1000 00	3	.	.	7. 1000 00
			3000 00				3000 00

L. E. Wren

4/10/1901
50 *Whitaker's* *Shim*

1899	June 22	By	land	1899	June 22	By	land
50	3/4	Amusement	2. 1500 00	50	3/4	Amusement	2. 1500 00
1	.	.	5. 500 00	1	.	.	5. 500 00
2	.	.	6. 500 00	2	.	.	6. 500 00
3	.	.	7. 500 00	3	.	.	7. 500 00
			1500 00				1500 00
10	3/4	Amusement	20 5. 1000 00	10	3/4	Amusement	20 5. 1000 00
15	.	.	32. 500 00	15	.	.	32. 500 00
20	.	.	34. 500 00	20	.	.	34. 500 00
25	.	.	40. 500 00	25	.	.	40. 500 00
			2500 00				2500 00

V. H. Bonkle *309 Broadway* *Shim*

1899	June 22	By	land	1899	June 22	By	land
50	3/4	Amusement	1. 1000 00	50	3/4	Amusement	1. 1000 00
1	.	.	3. 500 00	1	.	.	3. 500 00
2	.	.	5. 500 00	2	.	.	5. 500 00
3	.	.	7. 500 00	3	.	.	7. 500 00
			1500 00				1500 00

Mahlon B. Campbell

4/11/1901
50 *Whitaker's* *Shim*

1899	June 22	By	land	1899	June 22	By	land
50	3/4	Amusement	1. 1000 00	50	3/4	Amusement	1. 1000 00
1	.	.	3. 500 00	1	.	.	3. 500 00
2	.	.	5. 500 00	2	.	.	5. 500 00
3	.	.	7. 500 00	3	.	.	7. 500 00
			1500 00				1500 00
10	3/4	Amusement	10 4. 1000 00	10	3/4	Amusement	10 4. 1000 00
15	.	.	50. 500 00	15	.	.	50. 500 00
20	.	.	56. 500 00	20	.	.	56. 500 00
25	.	.	41. 500 00	25	.	.	41. 500 00
			2500 00				2500 00

S. J. Shanbacher 420 Chestnut St, Phila

1899	June 30	To Accumulation	2,000.00	1899	June 23	By bank	2,000.00
July 1	1		4,000.00	Aug 31	Aug 31		5,000.00
Aug 2	2		6,000.00	Oct 16	Oct 16		6,000.00
Nov 2	2		8,000.00				9,000.00
			9,000.00				
1900	Jan 10	To Accumulation	20,000.00	1900	Aug 11	By bank	11,000.00
Dec 15	15		31,000.00	Aug 24	Aug 24		12,000.00
Nov 15	15		37,000.00	July 17	July 17		14,000.00
July 15	15		43,000.00	22	Shanbacher		4,000.00
				July 16	July 16	bank	11,000.00
							11,000.00

C. J. Holladay 627 Walnut St

1899	June 30	To Accumulation	1,000.00	1899	June 26	By bank	2,000.00
July 1	1		3,000.00	July 1	July 1		5,000.00
Aug 2	2		5,000.00	Aug 4	Aug 4		26,000.00
Nov 2	2		7,000.00				15,000.00
			15,000.00				
1900	Jan 10	To Accumulation	10,000.00	1900	Aug 23	By bank	11,000.00
Dec 15	15		20,000.00	Aug 27	Aug 27		12,000.00
Nov 15	15		36,000.00	Aug 21	Aug 21		14,000.00
July 15	15		43,000.00	July 16	July 16		21,000.00
			25,000.00				25,000.00
Aug 1	1	To Accumulation	58,250.00	July 24	July 24	By bank	2,100.00
July 16	16		56,000.00	Aug 24	Aug 24	By bank	100,000.00
			60,000.00	Aug 17	Aug 17		32,000.00
Nov 15	15		68,000.00	July 7	July 7		34,000.00
			67,000.00	Aug 10	Aug 10		34,000.00
Dec 15	15		74,000.00				42,000.00
July 15	15		75,000.00				12,000.00
Aug 31	31	Balance	147,250.00				12,000.00
			12,000.00				

Charles Page Allen Land on Laurel bet Phila

1899	June 30	To Accumulation	1,200.00	1899	June 23	By bank	2,200.00
July 1	1		4,000.00	Nov 7	Nov 7		20,000.00
Aug 2	2		6,000.00	27	27		20,000.00
Nov 2	2		8,000.00				36,000.00
			24,000.00				
1900	Jan 10	To Accumulation	19,000.00	1900	Nov 21	By bank	22,000.00
Dec 15	15		31,000.00	19	19		9,750.00
Nov 15	15		37,000.00	June 10	June 10		10,000.00
July 15	15		42,000.00	17	17		22,000.00
			21,000.00				21,000.00
Aug 1	1	To Accumulation	58,250.00	Oct 10	Oct 10	By bank	12,000.00
July 16	16		60,000.00	17	17		32,000.00
Nov 15	15		68,000.00	22	22		36,000.00
July 15	15		67,000.00	31	31	Balance	64,000.00
			12,000.00	15	15	bank	36,000.00
Dec 15	15		70,000.00	28	28		34,000.00
Aug 31	31	Balance	71,000.00			Balance	69,000.00
			11,000.00	18	18		71,000.00
			11,000.00			bank	57,000.00
			13,500.00	19	19		57,000.00
							13,500.00

Wm L. O'Neill 1306 1/2 Walnut St

1899	June 30	To Accumulation	1,000.00	1899	June 26	By bank	2,000.00
July 1	1		5,000.00	July 1	July 1		12,000.00
Aug 2	2		6,000.00	Oct 16	Oct 16		16,000.00
Nov 2	2		8,000.00				15,000.00
			15,000.00				
1900	Jan 10	To Accumulation	19,000.00	1900	Aug 14	By bank	14,000.00
Dec 15	15		31,000.00	11	11		14,000.00
Nov 15	15		37,000.00	21	21		14,000.00
July 15	15		42,000.00	15	15		19,000.00
			25,000.00				25,000.00
Aug 1	1	To Accumulation	58,250.00	Aug 3	Aug 3	By bank	24,000.00
July 16	16		60,000.00	27	27		31,000.00
Nov 15	15		68,000.00	27	27		34,000.00
July 15	15		67,000.00	20	20		37,000.00
Dec 15	15		74,000.00			Balance	76,000.00
Aug 31	31	Balance	75,000.00				119,000.00
			11,000.00				
Dec 31	31	To Accumulation	12,000.00	Apr 1	Apr 1	By Balance	2,000.00
			12,000.00				

May 1849
Samuel Dickson

131 Ch. South St. N.Y.

1849	June 30	To Accounts apd	1,200.00	1849	June 23	By Cash	2,100.00
July 1			500.00	July 15			16,100.00
Aug 2			500.00	July 24			500.00
Sept 2			700.00				
			1500.00				1500.00
1850	Aug 10	To Accounts apd	19,100.00	Aug 13	By Cash	114,100.00	
Sept 15			500.00	Sept 10		214,150.00	
Oct 15			500.00				
Nov 15			410.00				
			2500.00				2500.00

J. L. Cropper

Hamden Pa

1849	June 30	To Accounts apd	1,200.00	1849	June 25	By Cash	2,200.00
July 1			400.00	July 1			12,100.00
Aug 2			500.00	July 16			16,200.00
Sept 2			700.00				
			5000.00				5000.00
1850	Aug 10	To Accounts apd	19,200.00	Aug 10	By Cash	114,200.00	
Sept 15			500.00	Sept 17		174,150.00	
Oct 15			500.00				
Nov 15			420.00				
			3500.00				3500.00

May 1849
James S. Bacon

Hamden Pa

1849	June 30	To Accounts apd	1,200.00	1849	June 25	By Cash	2,200.00
July 1			500.00	July 1			12,100.00
Aug 2			500.00	July 16			16,200.00
Sept 2			700.00				
			3000.00				3000.00
1850	Aug 10	To Accounts apd	19,200.00	Aug 10	By Cash	114,200.00	
Sept 15			500.00	Sept 17		174,150.00	
Oct 15			500.00				
Nov 15			410.00				
			5000.00				5000.00
1851	Aug 1	To Accounts apd	52,120.00	Aug 19	By Cash	114,150.00	

B. B. Gaskill

500 Ch. South St

1849	June 30	To Accounts apd	1,200.00	1849	June 25	By Cash	2,200.00
July 1			400.00	July 1			12,100.00
Aug 2			500.00	July 16			16,200.00
Sept 2			700.00				
			2700.00				2700.00
1850	Aug 10	To Accounts apd	19,200.00	Aug 10	By Cash	114,200.00	
Sept 15			500.00	Sept 17		174,150.00	
Oct 15			500.00				
Nov 15			420.00				
			2000.00				2000.00

Ervin H. C.

Amel. Psy. Phila

[illegible]

Q-11: 17/3/2

Edmund P. Lee

205 *Chrysomelidae* H.

1899	Jan 28	3,000.00	1	1,000.00	1899	Feb 25	1,000.00	1,000.00
Feb	1		4	500.00	Feb	1	13.33	500.00
Mar	1		5	500.00	Mar	1	15	500.00
Apr	1		6	500.00	Apr	1	4.00	500.00
				1,500.00				1,500.00
1900	Jan 10	3,000.00	19	1,000.00	1900	Jan 19	15	1,000.00
Feb	15		5	500.00	Feb	15	19	500.00
Mar	15		6	500.00	Mar	15	19	500.00
Apr	15		4	500.00	Apr	15	21	500.00
				2,500.00				2,500.00

Aug 24/90

C. W. Hicks

From Billy Howard

1999	Jan	2	to Commencing	99	1	1,000.00	100	20	of	bank	1,000.00	2	1,000.00
Feb	1				4	1,000.00	Apr			500.00	12		1,000.00
May	1				6	1,000.00	May	5		1,000.00	16		1,000.00
June	1				7	1,000.00	June	11		1,000.00	20		1,000.00
						5,000.00							5,000.00
1999	10	to	Commencing	99	17	1,000.00	100	10	of	bank	1,000.00	14	1,000.00
Jan	15				50	1,000.00	200	15			1,000.00	19	1,000.00
May	15				36	1,000.00	100	21			1,000.00	19	1,000.00
July	15				44	1,000.00	100	15			2,125.00	15	1,000.00
						5,000.00							5,000.00

aa. *Storing*
Pyrene 2a

A. B. Hoover

1425 W Second St.

4500 2. 27/90

1890		1891		1892		1893		1894		1895		1896		1897		1898		1899		1900		1901		1902		1903		1904		1905		1906		1907		1908		1909		1910		1911		1912		1913		1914		1915		1916		1917		1918		1919		1920		1921		1922		1923		1924		1925		1926		1927		1928		1929		1930		1931		1932		1933		1934		1935		1936		1937		1938		1939		1940		1941		1942		1943		1944		1945		1946		1947		1948		1949		1950		1951		1952		1953		1954		1955		1956		1957		1958		1959		1960		1961		1962		1963		1964		1965		1966		1967		1968		1969		1970		1971		1972		1973		1974		1975		1976		1977		1978		1979		1980		1981		1982		1983		1984		1985		1986		1987		1988		1989		1990		1991		1992		1993		1994		1995		1996		1997		1998		1999		2000		2001		2002		2003		2004		2005		2006		2007		2008		2009		2010		2011		2012		2013		2014		2015		2016		2017		2018		2019		2020		2021		2022		2023		2024		2025		2026		2027		2028		2029		2030		2031		2032		2033		2034		2035		2036		2037		2038		2039		2040		2041		2042		2043		2044		2045		2046		2047		2048		2049		2050		2051		2052		2053		2054		2055		2056		2057		2058		2059		2060		2061		2062		2063		2064		2065		2066		2067		2068		2069		2070		2071		2072		2073		2074		2075		2076		2077		2078		2079		2080		2081		2082		2083		2084		2085		2086		2087		2088		2089		2090		2091		2092		2093		2094		2095		2096		2097		2098		2099		2100	
Jan	30	2	Assessment	4	1000 00	1899	Jan	25	2	Barb	2	1000 00																																																																																																																																																																																																																																																																																																																																																																																																																									
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Apr	2			1	250 00	May	4			20	500 00																																																																																																																																																																																																																																																																																																																																																																																																																										
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June	10	2	Assessment	19	500 00	June	10			10	2000 00																																																																																																																																																																																																																																																																																																																																																																																																																										
July	15			30	500 00	July	16			174	500 00																																																																																																																																																																																																																																																																																																																																																																																																																										
Aug	15			36	500 00	Aug	11			74	500 00																																																																																																																																																																																																																																																																																																																																																																																																																										
Sept	15			42	500 00	Sept	15			74	500 00																																																																																																																																																																																																																																																																																																																																																																																																																										
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Apr 19/50

J. Wesley Supplies 2nd Sheet

1899	June 30	2 nd Account, ap	2	1,500.00	1899	June 30	2 nd Account, ap	2	1,500.00
July 1			4	1,500.00	July 1		by bank	12	2,500.00
Aug 1			6	1,500.00	Aug 1			20	5,000.00
Sept 1			8	1,500.00	Sept 1				7,500.00
				7,500.00					
1900	Jan 10		20	1,500.00	1900	Jan 11	by bank	12	5,000.00
Feb 15			31	1,500.00	Feb 17			17	2,500.00
Mar 15			37	1,500.00	Mar 17			19	2,500.00
Apr 15			43	1,500.00	Apr 16			212	2,500.00
				12,500.00					12,500.00

Mr. B. Patton

24 (home) Aug

1899	June 30	2 nd Account, ap	1	1,000.00	1899	June 30	2 nd Account, ap	1	1,000.00
July 1			4	1,000.00	July 1		by bank	9	1,500.00
Aug 1			6	1,000.00					
Sept 1			8	1,000.00					1,500.00
				15,000.00					

Apr 19/50

C. L. Gramp Bank & Merchants

1899	June 30	2 nd Account, ap	1	2,000.00	1899	June 30	2 nd Account, ap	2	2,000.00
July 1			3	1,000.00	July 1		by bank	26	3,000.00
Aug 1			5	1,000.00					
Sept 1			7	1,000.00					
				3,000.00					3,000.00
1900	Jan 10	2 nd Account, ap	14	1,000.00	1900	Jan 5	by bank	24	5,000.00
Feb 15			30	1,000.00					
Mar 15			36	1,000.00					
Apr 15			41	1,000.00					5,000.00
				5,000.00					

J. Bell (Canton) (home) Aug

1899	June 30	2 nd Account, ap	1	1,000.00	1899	June 30	2 nd Account, ap	1	1,000.00
July 1			3	500.00	July 1		by bank	10	500.00
Aug 1			5	500.00	Aug 1			14	500.00
Sept 1			7	500.00	Sept 1			20	500.00
				1,500.00					1,500.00
1900	Jan 10	2 nd Account, ap	14	1,000.00	1900	Jan 9	by bank	14	1,000.00
Feb 15			30	500.00	Feb 10			14	500.00
Mar 15			36	500.00	Mar 10			14	500.00
Apr 15			41	500.00	Apr 11			20	500.00
				2,500.00					2,500.00

Aug 9/1900

Jacob J. Leeds 1155 South 4th St

1899	June	30	To Accumulating AP	2000.00	1899	July	6	By bank	1950.00	4	1000.00
July	1			400.00	July	16			1000.00	16	1000.00
July	2			600.00	July	15			500.00	20	500.00
July	2			500.00					1500.00		1500.00
1900	Aug	10	To Accumulating AP	2000.00	1900	Aug	22	By bank	1100.00	1000.00	
Aug	15			500.00	Aug	7			1100.00	1000.00	
Aug	15			500.00	Aug	10			500.00	500.00	
Aug	15			400.00					2500.00		2500.00

Heron J. Evans

Hawaii

1899	June 30	To Accumulating AP	1000 00	1899	June 30	By clearing A/c	2000 00
					July 14	By Cash	4000 00
			1000 00				2000 00
July 1	To Accumulating AP	5000 00	July 30	By Cash	14000 00		
2		5000 00	Aug 15		20000 00		
10		7000 00			50000 00		
		5000 00			20000 00		
1900	Aug 10	To Accumulating AP	10000 00	1900	Aug 9	By Cash	14000 00

Aug 9/1900

George C. Davies

1899	June	30	To Accumulating AP	1000.00	1899	July	14	By bank	2000.00	4	2000.00
July	1			500.00	July	30			2000.00	14	1000.00
July	2			500.00	July	31			1000.00	14	1000.00
July	2			700.00	July	15			2000.00	20	1000.00
1900	Aug	10	To Accumulating AP	1000.00	1900	Aug	17	By bank	1000.00	2000.00	
Aug	15			500.00	Aug	20			2000.00	20	1000.00
Aug	15			500.00					5000.00		5000.00

George C. Davies

Hawaii

1899	June	30	To Accumulating AP	1000.00	1899	July	14	By bank	2000.00	4	2000.00
July	1			500.00	July	30			2000.00	14	1000.00
July	2			500.00	July	31			1000.00	14	1000.00
July	2			700.00	July	15			2000.00	20	1000.00
1900	Aug	10	To Accumulating AP	1000.00	1900	Aug	17	By bank	1000.00	2000.00	
Aug	15			500.00	Aug	20			2000.00	20	1000.00
Aug	15			500.00					5000.00		5000.00

J. H. Gardiner

1899

Chicago

1899	June 30	2, Accrueing, 90	1	200 00	1899	July 12	of trans 30 bank	5	100 00
						14	bank	14	100 00
				200 00					200 00
July	1	2, Accrueing, 90	4	500 00	July	30	of bank	14	500 00
Aug	2		6	500 00	Aug	31		14	500 00
Aug	2		7	500 00	Aug	15		20	500 00
				150 00					150 00
Aug	10	2, Accrueing, 90	19	100 00	Aug	19	of bank	10	100 00
Aug	15		31	50 00	Aug	1		10	150 00
Aug	15		47	50 00					
Aug	15		42	50 00					250 00
				250 00					

E. J. Porter

1899

St. Louis, Mo.

1899	June 30	2, Accrueing, 90	2	1000 00	1899	Aug 24	of bank	10	2000 00
July	1		4	500 00	Aug	16		20	500 00
Aug	2		6	500 00					
Aug	2		7	500 00					2500 00
				2500 00					
Aug	10	2, Accrueing, 90	19	1000 00	1901	Aug 10	of bank	10	2500 00
Aug	15		31	500 00					
Aug	15		47	500 00					
Aug	15		42	500 00					2500 00
				2500 00					

W. D. Pilling

1899

1899	June 30	2, Accrueing, 90	1	2000 00	1899	June 30	of bank	2	1205 00
					July	14	bank	4	775 00
				2000 00					2000 00
July	1	2, Accrueing, 90	5	1000 00	July	30	of bank	14	2000 00
Aug	2		7	1000 00	Aug	15		20	1000 00
Aug	2		7	1000 00					5000 00
				5000 00					
Aug	10	2, Accrueing, 90	19	2000 00	Aug	9	of bank	14	2000 00

Joseph C. Shorpp

Enoch, Pa.

1899	June 30	2, Accrueing, 90	2	2000 00	1899	Aug 2	of bank	11	5000 00
July	1		4	1000 00					
Aug	2		6	1000 00					
Aug	2		7	1000 00					5000 00
				5000 00					

J. W. Emmell

15th Sept 1890

1890	12	2. 1/2	Assessment	4. 1/2	1000.00	1890	12	1/2	back	4. 1/2	1000.00
1891	1	.	.	4. 1/2	1000.00	1891	1	.	.	12. 1/2	1000.00
1892	2	.	.	6. 1/2	1000.00	1892	2	.	.	34. 1/2	1000.00
1893	2	.	.	6. 1/2	1000.00					6000.00	
1894	10	2. 1/2	Assessment	20. 1/2	1000.00	1894	10	2. 1/2	back	174. 1/2	1000.00
1895	15	.	.	32. 1/2	1000.00	1895	15	.	.	22. 1/2	1000.00
1896	15	.	.	34. 1/2	1000.00	1896	15	.	.	140. 1/2	1000.00
1897	15	.	.	42. 1/2	1000.00					10000.00	
1898	15	.	.	42. 1/2	1000.00					10000.00	

J. Davis Hilber

18th Sept 1890

10000 and 100000

1890	1	2. 1/2	Assessment	4. 1/2	500.00	1890	1	2. 1/2	back	10. 1/2	500.00
1891	2	.	.	6. 1/2	500.00	1891	2	.	.	1500.00	
1892	2	.	.	6. 1/2	500.00					1500.00	
1893	10	2. 1/2	Assessment	20. 1/2	1000.00	1893	10	2. 1/2	back	112. 1/2	1000.00
1894	15	.	.	31. 1/2	500.00	1894	15	.	.	174. 1/2	500.00
1895	15	.	.	37. 1/2	500.00	1895	15	.	.	114. 1/2	1000.00
1896	15	.	.	42. 1/2	500.00					2500.00	
1897	15	.	.	42. 1/2	500.00					2500.00	

J. W. Emmell

18th Sept 1890

10000 and 100000

1890	12	2. 1/2	Assessment	4. 1/2	1000.00	1890	12	1/2	back	4. 1/2	1000.00
1891	1	.	.	4. 1/2	1000.00	1891	1	.	.	10. 1/2	1000.00
1892	2	.	.	6. 1/2	1000.00					1500.00	
1893	2	.	.	6. 1/2	1000.00					1500.00	
1894	10	2. 1/2	Assessment	20. 1/2	1000.00	1894	10	2. 1/2	back	106. 1/2	1000.00
1895	15	.	.	31. 1/2	500.00	1895	15	.	.	174. 1/2	1000.00
1896	15	.	.	37. 1/2	500.00					2500.00	
1897	15	.	.	42. 1/2	500.00					2500.00	

J. Davis Hilber

18th Sept 1890

10000 and 100000

1890	1	2. 1/2	Assessment	4. 1/2	500.00	1890	1	2. 1/2	back	10. 1/2	500.00
1891	2	.	.	6. 1/2	500.00	1891	2	.	.	16. 1/2	500.00
1892	2	.	.	6. 1/2	500.00	1892	2	.	.	20. 1/2	500.00
1893	10	2. 1/2	Assessment	20. 1/2	1000.00	1893	10	2. 1/2	back	144. 1/2	1000.00
1894	15	.	.	31. 1/2	500.00	1894	15	.	.	194. 1/2	1000.00
1895	15	.	.	37. 1/2	500.00					2500.00	
1896	15	.	.	42. 1/2	500.00					2500.00	

Apr 11/1900 20
 William H. S. Bateman

1900	2 1/2 Ammun. 90	4 1/2 50 00	1900	2 1/2 bank	20 50 00
May 10		15 1/2 100 00	May 10		112 100 00
May 15		30 1/2 50 00	May 15		76 50 00
May 15		36 1/2 50 00	May 15		19 1/2 50 00
May 15		41 1/2 50 00	May 15		210 50 00
		250 00			250 00

May 25/1900 20
 W. W. Lippard (1516 General Fund)

			June 25th 1870		
May	2 1/2 for W. W. Lippard	10 7500 00	May	5 1/2 bank	26 7500 00
May	10 1/2 Ammun. 90	19 1/2 5000 00	May	10 1/2 bank	150 5000 00
May	15	31 1/2 2500 00	May	15	250 7500 00
May	15	37 1/2 2500 00			
May	15	42 1/2 2500 00			
		12500 00			12500 00

July 11/1900 60
 W. H. D. D. D. (400 West Chapman St.)

1900			1900			1900			1900
May	10	2 1/2 Ammun. 90	11 1/2 10500 00	May	10	2 1/2 bank	42 5105 00		
May	15	" " Ammun. 90	14 1/2 2000 00	May	15	" "	114 2000 00		
May	15	" "	30 1/2 1000 00	May	15	" "	175 1000 00		
May	15	" "	36 1/2 1000 00	May	15	" "	194 1000 00		
May	15	" "	41 1/2 1000 00	May	15	" "	210 1000 00		
			5000 00				5000 00		

June 25/1900 20
 Enoch S. Rogers (1711 Chapman St.)

1900	10	2 1/2 Ammun. 90	19 1/2 500 00	1900	20	By bank	104 500 00
Dec	15	"	31 1/2 250 00	Dec	17	"	174 750 00
1900	15	"	37 1/2 250 00				
1900	15	"	42 1/2 250 00				
1900			1250 00				1250 00

June 23/90

 1890
 June 23
 1890

James L. Webster 1434 Webster St, Kansas

Aug	10	2, Amusement	205/1000 00	July 23	by bank	104/1000 00
Dec	15		324/500 00	Jan 11	8/500 00	324/1500 00
July	15		304/500 00			
July	15		416/500 00			
			2500 00			2500 00
Aug	1	3, Amusement	554/1200 00	July 22	by bank	242/600 00
			504/600 00	Aug 1		392/2400 00
Apr	10		604/1200 00	Aug 24		320/2400 00
Aug	15		674/1200 00		Amusement	64/1250 00
Aug	15		754/1200 00			
May	31	Balance	6650 00			6650 00
Dec	31	2, Amusement	122/1250 00	April 1	by balance	1250 00

Alfred C. Harvey

226 S. Main St, Kansas

 1890
 June 23
 1890

Aug	10	2, Amusement	194/1000 00	July 2	by bank	112/1000 00
Dec	15		304/500 00	Dec 12		742/500 00
July	15		364/500 00	Jan 1		144/500 00
July	15		424/500 00	July 5		204/500 00
			2500 00			2500 00

Joseph H. Berry (L. Highland & Lawrence St)

June 23/90

 1890
 June 23
 1890

Aug	10	2, Amusement	144/5000 00	July 2	by bank	112/5000 00
Dec	15		304/2500 00	Dec 12		144/7500 00
July	15		364/2500 00			
July	15		424/2500 00			
			12500 00			12500 00
Aug	1	3, Amusement	564/2500 00	July 25	by bank	204/3900 00

June 23/90

 1890
 June 23
 1890

Frank W. Berry 12th & Main St, Kansas

Aug	10	2, Amusement	154/1000 00	July 4	by bank	112/1000 00
Dec	15		304/500 00	Dec 15		174/1500 00
July	15		364/500 00			
July	15		416/500 00			
			2500 00			2500 00
Aug	1	3, Amusement	544/600 00	July 1	by bank	242/600 00

6th Nov 1900

10th June 20 1899
Jan 7 1899

John P. Matheson 10th 1899 (Shutout) 1899

1900	10	2 1/2 Annamys 20	19 4 1500 00	1900	24	by hand	12 4 1500 00
Aug	15	"	51 4 750 00	1901	11	"	20 4 1250 00
Dec	15	"	57 4 750 00				
Jan	15	"	42 4 750 00				
Feb	15	"	5750 00				
			5750 00				5750 00
Aug	1	2 Annamys 20	56 4 750 00	Feb	26	by hand	20 4 5750 00
			750 00		30	"	2500 00
							750 00

1900
Aug 15
Dec 15
Jan 15
Feb 15

Alfred D. Miller 1900 (Shutout) 1899

1900	10	2 1/2 Annamys 20	19 4 1000 00	1900	1	by hand	27 4 500 00
Aug	15	"	51 4 250 00	1901	9	"	11 4 1250 00
Dec	15	"	57 4 250 00				
Jan	15	"	42 4 250 00				
Feb	15	"	5750 00				
			1750 00				1750 00

6th Nov 1900

10th June 20 1899
Jan 7 1899

Emma W. F. Page

1900	10	2 1/2 Annamys 20	19 4 750 00	1900	12	by hand	17 4 750 00
Aug	15	"	51 4 750 00	1901	21	"	22 4 750 00
Dec	15	"	57 4 750 00	Jan	10	"	26 4 750 00
Jan	15	"	42 4 750 00				
Feb	15	"	5750 00				
			16750 00				16750 00

1900	10	2 1/2 Annamys 20	19 4 400 00	1900	18	by hand	11 4 400 00
Aug	15	"	51 4 200 00	1901	29	"	20 4 200 00
Dec	15	"	57 4 200 00	Jan	18	"	21 4 200 00
Jan	15	"	42 4 200 00	Feb	26	"	24 4 200 00
Feb	15	"	5750 00				
			10000 00				10000 00

2/10/1912 60

Max Keschack

1911	Aug 10	to Amusement	19	5760 00	1911	Aug 11	to back	116	1680 00
1911	Aug 15	"	31	5760 00	1911	Aug 15	"	174	500 00
1911	Aug 15	"	37	5760 00	1911	Aug 15	"	210	1680 00
1911	Aug 15	"	43	5760 00					4080 00
				4080 00					3549 940 00
1911	Aug 1	to Amusement	55	2350 00	1911	Aug 12	to back	55	2500 00
1911	Aug 15	"	60	2350 00					
1911	Aug 15	"	67	2350 00					
1911	Aug 15	"	75	2350 00					
1911	Aug 31	to Balance		2370 00					
				1190 00	1912	Aug 1	to Balance		1190 00
1912	Aug 31	to Prof. Prof. Sub	121	2500 00					2500 00

1911
Aug 10 1680
Aug 15 500
Aug 15 1680
Aug 15 1680
Aug 15 1680

J. Maclean Smith

1911	Aug 10	to Amusement	20	5760 00	1911	Aug 12	to back	116	500 00
1911	Aug 15	"	31	5760 00	1911	Aug 15	"	174	750 00
1911	Aug 15	"	37	5760 00					
1911	Aug 15	"	43	5760 00					1250 00
				1250 00					

Wm J. Service

1911	Aug 10	to Amusement	20	5760 00	1911	Aug 9	to back	116	1680 00
1911	Aug 15	"	31	5760 00	1911	Aug 15	"	174	500 00
1911	Aug 15	"	37	5760 00	1911	Aug 16	"	194	500 00
1911	Aug 15	"	43	5760 00	1911	Aug 21	"	210	500 00
				2500 00					2500 00

Thomas W. Thompson

1911	Aug 10	to Amusement	20	5760 00	1911	Aug 10	to back	116	1680 00
1911	Aug 15	"	31	5760 00	1911	Aug 15	"	174	500 00
1911	Aug 15	"	37	5760 00	1911	Aug 15	"	24	5250 00
1911	Aug 15	"	43	5760 00	1911	Aug 14	"	210	5250 00
				26250 00					26250 00
1911	Aug 1	to Amusement	55	4700 00	1911	Aug 10	to back	55	4700 00
1911	Aug 15	"	60	4700 00	1911	Aug 15	"	60	4700 00
1911	Aug 15	"	67	4700 00	1911	Aug 15	"	67	4700 00
1911	Aug 15	"	75	4700 00	1911	Aug 19	"	75	4700 00
1911	Aug 31	to Balance		5000 00	1911	Aug 19	to Amusement		5000 00
				23700 00					23700 00
1912	Aug 1	to Due Payable	23	4250 00	1912	Aug 1	to Balance		5000 00
1912	Aug 1	"	58	12500 00	1912	Aug 1	to back	15	12500 00
1912	Aug 1	"	8	5000 00	1912	Aug 1	to back	19	2500 00
1912	Aug 31	"	9	11700 00	1912	Aug 1	to back	205	5500 00
				5100 00	1912	Aug 1	to back	7	12500 00
1912	Aug 31	to Prof. Prof. Sub	142	5760 00	1912	Aug 1	to back	5	4440 00
				5250 00	1912	Aug 31	to back	12	5500 00
					1912	Aug 31	to back	4	17500 00
				5250 00					5250 00

2700 00
180 00
180 00

2700 00
180 00
180 00

Harry White

Aug	10	2	Assessment, ap	20	5,000.00	Aug	9	by	land	114	2,000.00
Dec	15	.	.	32	1,000.00	Dec	27	.	.	102	1,000.00
Jan	15	.	.	35	1,000.00	Jan	1	.	.	46	2,000.00
Feb	15	.	.	45	1,000.00						
					5,000.00						5,000.00
Aug	1	2	Assessment, ap	55	4,125.00	Aug	24	by	land	363	2,400.00
Oct	16	.	.	60	4,125.00	Dec	27	.	.	114	2,400.00
Nov	15	.	.	67	1,200.00	Jan	29	by	Assessment, ap	101	1,250.00
Dec	15	.	.	75	1,200.00						
Jan	31	.	Balance		12,500.00						60,500.00
Dec	31	2	Prof & Cap. Ac	126	1,250.00	Apr	1	by	Balance		1,250.00

George B. Wilson

Aug	10	2	Assessment, ap	20	5,000.00	Aug	7	by	land	111	1,000.00
Dec	15	.	.	32	1,500.00	Dec	15	.	.	175	500.00
Jan	15	.	.	37	500.00	Jan	14	.	.	194	500.00
Feb	15	.	.	45	500.00	Feb	15	.	.	210	500.00
					2,500.00						2,500.00

E. L. Miller, Jr.

Aug	25	2	Assessment, ap	21	4,500.00	Aug	25	by	land	120	4,500.00	
Dec	15	.	Assessment, ap	31	4,175.00	Dec	15	.	.	104	1,500.00	
Jan	15	.	.	37	4,175.00	Jan	.	.	.		5,360.00	
Feb	15	.	.	46	1,750.00	Feb	21	.	.	194	3,500.00	
					5,000.00	Feb	15	.	.	212	1,500.00	
					5,000.00						5,000.00	
Aug	1	2	Assessment, ap	55	4,125.00	Aug	13	by	land	294	1,200.00	
Oct	16	.	.	60	4,125.00	Oct	24	.	.	312	3,000.00	
Nov	15	.	.	67	1,200.00	Nov	.	Assessment, ap		61	1,250.00	
Dec	15	.	.	75	1,200.00	Dec	12	.	.	66	2,500.00	
Jan	31	.	Balance		11,250.00	Jan	2	.	Interest	154	190.62	
Apr	1	.	Balance		26,250.00	Apr	.	.	land		1,120.95	
					45,500.00						45,500.00	
May	29	2	Assessment, ap	21	1,250.00	May	2	by	Balance		26,250.00	
July	22	.	.	24	1,250.00	July	7	.	land	21	4,225.43	
Sept	24	.	.	6	1,250.00	Sept	.	.	Interest	394	2,411.67	
		.	Balance		72,250.00	Feb	31	.	.	land	1,004	2,573.33
					67,500.00	Feb	29	.	.	land	352	1,224.16
						Feb	29	.	.	Interest	411	1,224.37
											1,014	2,573.25
												66,750.00

Max Blomfield Peterson

Aug	1	2	Assessment, ap	21	1,000.00	Aug	22	by	land	157	2,500.00
Dec	15	.	Assessment, ap	31	1,500.00						
Jan	15	.	.	37	1,500.00						
Feb	15	.	.	45	1,500.00						
					2,500.00						2,500.00

Wm. J. Summey 151st Oct 10th 1884

1900 Dec	15	3/4 Annamun, GP	50 ⁰⁰ 1200 00	1900 Dec	13	1/2 bad	1700 1200 00
1901 Jan	15	"	36 ⁰⁰ 1200 00	1901 Jan	15	"	1900 1200 00
1901 Feb	15	"	42 ⁰⁰ 1200 00	1901 Feb	15	"	2100 1200 00
			3600 00				3600 00
1901 Apr	1	3/4 Annamun, GP	56 ⁰⁰ 625 00	1901 Apr	24	1/2 bad	5500 607 50
1901 May	16	"	60 ⁰⁰ 625 00	1901 May	16	1/2 bad	5100 562 50
1901 Jun	15	"	66 ⁰⁰ 625 00	1901 Jun	15	"	5300 625 00
1901 Jul	15	"	74 ⁰⁰ 625 00	1901 Jul	15	"	5600 625 00
			2500 00				2500 00

Michael Magee

1900 Dec	15	3/4 Annamun, GP	51 ⁰⁰ 500 00	1900 Dec	14	1/2 bad	1700 500 00
1901 Jan	15	"	47 ⁰⁰ 500 00	1901 Jan	15	"	1900 500 00
1901 Feb	15	"	42 ⁰⁰ 500 00	1901 Feb	15	"	2100 500 00
			1500 00				1500 00

David Masten

1900 Dec	15	3/4 Annamun, GP	51 ⁰⁰ 1000 00	1900 Dec	14	1/2 bad	1700 3000 00
1901 Jan	15	"	47 ⁰⁰ 1000 00				
1901 Feb	15	"	42 ⁰⁰ 1000 00				
			3500 00				3500 00
1901 Apr	1	3/4 Annamun, GP	56 ⁰⁰ 7500 00	1901 Apr	25	1/2 bad	5000 1500 00

Wm. J. Dickson 211st Oct 19th 1884

1900 Dec	15	3/4 Annamun, GP	50 ⁰⁰ 250 00	1900 Dec	7	1/2 bad	1700 250 00
1901 Jan	15	"	36 ⁰⁰ 250 00	1901 Jan	16	"	1900 250 00
1901 Feb	15	"	41 ⁰⁰ 250 00	1901 Feb	20	"	2100 250 00
			750 00				750 00

1900
Dec 15
1901
Jan 15
Feb 15

James W. Walker 457 Chestnut St.

1900 Dec 15	To Accounting, apd	56.11	1000.00	1900 Dec 17	By Cash, H. H. H.	75.00	75.00
1901 Jan 15	do	52.44	4500.00	1901 Jan 17	do	12.50	1500.00
1901 Feb 15	To Accounting, apd	54.71	1000.00	1901 Feb 17	do	12.50	1250.00
1901 Feb 15	To Accounting, apd	45.89	1000.00	1901 Feb 17	do	500.00	500.00
				1901 Feb 17	do	97.50	97.50
				1901 Feb 17	do	12.50	12.50
				1901 Feb 17	do	750.00	750.00
				1901 Feb 17	do	4000.00	4000.00
				1901 Feb 17	do	1550.00	1550.00
				1901 Feb 17	do	1500.00	1500.00
				1901 Feb 17	do	750.00	750.00
				1901 Feb 17	do	1550.00	1550.00
				1901 Feb 17	do	5550.00	5550.00

5550.00

5550.00

1900
Dec 15
1901
Jan 15
1901
Feb 15

W. A. Shuff

and Co. 11/19/00

1900 Dec 15	To Accounting, apd	51.10	250.00	1900 Dec 17	By Cash	140.00	250.00
1901 Jan 15	do	47.10	250.00	1901 Jan 17	do	190.00	250.00
1901 Feb 15	do	42.10	250.00	1901 Feb 17	do	214.00	250.00
				1901 Feb 17	do	750.00	750.00
1901 Feb 17	To Accounting, apd	51.10	250.00	1901 Feb 17	do	214.00	250.00

214.00

214.00

Daniel L. Dillingham

and Co. 11/19/00

1900 Dec 15	To Accounting, apd	50.10	250.00	1900 Dec 17	By Cash	140.00	250.00
1901 Jan 15	do	46.10	250.00	1901 Jan 17	do	190.00	250.00
1901 Feb 15	do	41.10	250.00	1901 Feb 17	do	214.00	250.00
				1901 Feb 17	do	750.00	750.00
1901 Feb 17	To Accounting, apd	50.10	250.00	1901 Feb 17	do	214.00	250.00

214.00

214.00

11/24/1900

Rosalia Baranna

1900	15	3	Commence, ap	50	4	250	00	1901	7	by	bank	100	7	50	00
1901	15			36	4	250	00								
1901	15			41	4	250	00								
						75	00							75	00

Frederick A. Cable

1900	15	3	Commence, ap	50	4	500	00	1901	7	by	bank	150	4	500	00
1901	15			36	4	500	00								
1901	15			42	4	500	00								
						150	00							150	00

Archibald W. McNeal

1900	15	3	Commence, ap	51	4	250	00	1901	12	by	bank	100	7	50	00
1901	15			57	4	250	00								
1901	15			72	4	250	00								
						75	00							75	00
1901	1	3	Commence, ap	55	7	250	00	1901	16	by	bank	100	7	500	00
1901	16			60	7	250	00								
1901	16			63	7	600	00								
1901	15			67	8	250	00								
1901	15			75	7	250	00								
1901	31		Baranna	13	2	500	00								
						125	00							125	00
1901	12	2	Baranna	2	4	475	00	1901	1	by	Baranna	10	4	250	00
1901	23		bank	19	3	475	00								
1901	11			19	3	299	92								
1901	1		Baranna	5	1	475	00	1901	11		Baranna	10	4	250	00
1901	29			7	4	1000	00								
1901	30		bank	10	4	475	00	1901	12		Baranna	10	4	250	00
1901	31		bank	10	4	1000	00	1901	30		bank	10	4	1000	00
1901	3		Baranna	9	7	500	00	1901	20		Baranna	10	4	250	00
						577	42							577	42

Gilling & Baranna

1900	15	3	Commence, ap	51	4	500	00	1901	1	by	bank	100	7	500	00
1901	15			57	4	500	00								
1901	15			73	4	500	00								
						150	00							150	00
1901	30	2	Commence, ap	50	4	250	00	1901	30	by	bank	100	7	500	00
1901	7	2	Commence, ap	41	4	250	00								
1901	1		Commence, ap	55	4	250	00								
1901	16			60	4	250	00								
1901	30		Commence, ap	61	8	112	49								
						16	09								
1901	2		Commence, ap	65	4	147	34	1901	27		Commence, ap	10	4	250	00
1901	15		Commence, ap	67	4	250	00	1901	15		Commence, ap	10	4	250	00
1901	31			75	4	250	00								
						90	21							90	21
1901	25	2	Baranna	1	5	500	00	1901	16	by	Baranna	10	4	250	00
1901	27		bank	1	5	250	00	1901	25		Baranna	10	4	250	00
1901	1		bank	25	7	60	42								
1901			Baranna	10	4	250	00	1901	31		Baranna	10	4	250	00
						109	4	1901	31		Baranna	10	4	250	00
						109	4	1901	31		Baranna	10	4	250	00

Robert D. Smith

1900	May 15	to Amusement, 600	51	1500 00	1901	May 3	by Cash	252	1500 00
1900	May 15	"	47	1500 00					
1900	May 15	"	48	1500 00					
				1500 00					1500 00

Thomas Scattergood

1901	May 22	to Cash	57	1500 00	1901	May 22	by Cash	190	1200 00
1901	May 15	to Amusement, 600	48	1400 00					
				1200 00					1200 00
1901	May 1	to Amusement, 600	55	2350 00	1901	May 1	by Cash	116	2350 00
1901	May 6	"	60	2350 00	1901	May 23	by Cash	112	2350 00
1901	May 15	"	67	2350 00	1901	May 16	"	116	2350 00
1901	May 15	"	70	2350 00	1901	May 15	"	116	2350 00
1901	May 31	to Balance	2500 00		1901	May 15	to Balance	76	2500 00
			11900 00		1901	May 15	to Balance	11900 00	
1901	May 31	to Cash	12	2500 00	1901	May 31	by Balance	2500 00	

1901
May 22
May 23
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May 25
May 26
May 27
May 28
May 29
May 30
May 31
Total

May 14/1900 to Henry P. Burton

1901	May 31	to B. P. Burton	50	300 00	1901	May 31	by Cash	222	300 00
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May 24/1900 E. W. Darling

1901 May	30	to B. P. Burton	50	750 00	1901 May	30	by Cash	222	250 00
		500 =		750 00		5		276	500 00
									750 00
1901 May	31	to Balance		15350 00	1901 May	23	by Cash	57	400 00
						22		72	1100 00
						22		75	960 00
									15350 00
									15350 00
1901 May	31	to Cash	122	15350 00	1901 May	1	by Balance		15350 00

43 Shaw, John C. Baker 1 b. 11/11/1871
120 John W. Baker 1

Ans'd Nov 29/1900

John W. Houston

August 15th 1871
Dumfries, N. B.

1991	12	29	Accounting	94.3	564/1000.00	1991	12	29	band	564/1000.00
Aug	16				604/1000.00	Aug	22			524/1000.00
Sept	15				664/1000.00	Sept	15			584/1000.00
1992	15				744/1000.00					4000.00
July	15				4000.00					4000.00

C. H. Young

1901	Aug	12	By Ammonium, 44 B	56	1125 00	1901	Aug	13	By Land	27	1125 00
	Sept	16	" " "	60	1125 00		Sept	23	By Sundries	61	1125 00
					22.50 00						22.50 00

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Orig 250 Hm June 23/1958

Walter L. Woodman August 2nd 1862

May	1	2 nd Commission	94.30	564 ¹ / ₂ 22.50	July	22	by Cash	422 ¹ / ₂ 150.00
May	16	"	"	604 ¹ / ₂ 22.50	July	27	"	442 ¹ / ₂ 75.00
May	15	"	"	664 ¹ / ₂ 22.50	July	27	"	310 ¹ / ₂ 22.50
May	15	"	"	744 ¹ / ₂ 22.50	July	23	"	142 ¹ / ₂ 22.50
July					July	29	"	472 ¹ / ₂ 22.50
				900.00				900.00

William Grange 437 Chestnut St. (here)

1961	July	7	2y	band	2914	100.00	1961	July	1	1y	band	2904	4400.00
		1		Accessories	8534	75.50			5		Randomly chosen	574	12.50.00
	July	16				6084	17.50						
	July	15				678	117.50						
	July	15				784	17.50						
	July	31		Accessories		1250.00							
						6050.00						6050.00	
1962	Jan	31	2y	Sample of Ant. 141	1250	00	1962	April	1	1y	Accessories	1250	00

John W. Grange 437 Chestnut St. Phila

1901				1901			
Aug	7	2 ¹ / ₂ Lard	29 ¹ / ₂ 100.00	Aug	1	1 ¹ / ₂ Lard	25 ¹ / ₂ 140.00
Aug	1	Assessment	55 ¹ / ₂ 117.50	Aug	5	Swine	57 ¹ / ₂ 125.00
Sept	16	"	60 ¹ / ₂ 117.50				
Sept	15	"	60 ¹ / ₂ 117.50				
Sept	15	"	75 ¹ / ₂ 117.50				
Nov	31	Barnum	125.00				
			605.00				605.00
Dec	31	2 ¹ / ₂ Beef	125.00	1902	1	1 ¹ / ₂ Swine	125.00
			125.00	Jan			

E. Clarence Miller 447 Clinton Avenue

1901	Aug 7	3	cash	294 100 00	1901	Aug 1	by cash	224 400 00
	1		Accounting	55 417 50 00		5	Accounting	57 125 00
	16			60 417 50 00				
	15			67 417 50 00				
	15			75 417 50 00				
	31		Balance	125 00 00				
				60 50 00				
								60 50 00
Dec 31	3	by Cash	124 125 00	1902	Apr 1	by Balance	125 00	

John C. Parsons 447 Clinton Avenue

1901	Aug 1	3	Accounting	55 423 50 00	1901	Aug 2	by Cash	24 235 00
1901	Aug 16	1	Accounting	60 423 50 00	1901	Aug 17	by	310 423 50 00
1901	Aug 15	1	Accounting	67 423 50 00	1901	Aug 16	by	310 423 50 00
1901	Aug 15	1	Accounting	75 423 50 00	1901	Aug 16	by	310 423 50 00
1901	Aug 31	1	Balance	250 00 00	1901	Aug 16	by	310 423 50 00
				119 00 00				
Dec 31	3	by Cash	124 125 00	1902	Apr 1	by Balance	250 00	

Estate of Daniel Knuck 1505 4th St.

1901	Aug 1	3	Accounting	55 423 50 00	1901	Aug 5	by cash	244 23 50 00
1901	Aug 16	1	Accounting	61 342 50 00	1901	Aug 25	by	314 23 50 00
1901	Aug 15	1	Accounting	67 423 50 00	1901	Aug 29	by	314 23 50 00
1901	Aug 15	1	Accounting	75 423 50 00	1901	Aug 29	by	314 23 50 00
1901	Aug 31	1	Balance	250 00 00	1901	Aug 29	by	314 23 50 00
				119 00 00				
Dec 31	3	by Cash	124 125 00 00	1902	Apr 1	by Balance	250 00 00	

L. M. Lattinette 447 Clinton Avenue

Aug	1	3	Accounting	55 412 00 00	1901	Aug 5	by Cash	244 120 00
Aug	16	1	Accounting	60 412 00 00	1901	Aug 21	by	322 120 00
Aug	15	1	Accounting	67 412 00 00	1901	Aug 21	by	322 120 00
Aug	15	1	Accounting	75 412 00 00	1901	Aug 21	by	322 120 00
Aug	31	1	Balance	125 00 00	1901	Aug 21	by	322 120 00
				60 50 00				
Dec	31	3	by Cash	124 125 00	1902	Apr 1	by Balance	125 00

Robert J. Thompson 10 Kennedy Avenue

1901	Aug 12	3	Accounting	56 425 00 00	1901	Aug 6	by	Cash	244 125 00 00
1901	Aug 16	1	"	60 425 00 00	1901	Aug 17	by	"	310 425 00 00
1901	Aug 15	1	"	66 425 00 00	1901	Aug 17	by	"	330 425 00 00
1901	Aug 15	1	"	74 425 00 00	1901	Aug 15	by	"	361 425 00 00
				500 00 00					500 00 00
1901	Apr 3	2	Balance	1 425 00 00	1901	Apr 9	by	Cash	25 425 00 00
1901	Aug 17	1	"	2 400 00 00		Aug 10	by	Interest	25 500 00 00
				550 00 00			by	Cash	16 940 00 00
								Interest	94 200 00 00
				550 00 00					350 00 00
July	10	3	Balance	45 000 00 00	July	10	by	Cash	26 50 00 00

Paul C. Slippy 447 Clinton Avenue

1901	Aug 1	3	Accounting	55 412 00 00	1901	Aug 7	by Cash	244 120 00
1901	Aug 16	1	Accounting	60 412 00 00	1901	Aug 24	by	322 120 00
1901	Aug 15	1	Accounting	67 412 00 00	1901	Aug 11	by	322 120 00
1901	Aug 15	1	Accounting	75 412 00 00	1901	Aug 11	by	322 120 00
1901	Aug 31	1	Balance	125 00 00	1901	Aug 11	by	322 120 00
				60 50 00				
Dec 31	3	by Cash	124 125 00	1902	Apr 1	by Balance	125 00	

William P. Reed 507 Washington, Brooklyn, N.Y.

1901 Aug 12	2, Anniversary 94.3	58 1/2 2500.00	1901 Aug 1	1 of bond	292 1/2 2500.00
10		60 1/2 2500.00	17		310 1/2 2500.00
15		61 1/2 2500.00	15		330 1/2 2500.00
15		74 1/2 2500.00	15		360 1/2 2500.00
		10000.00			10000.00
Aug 14	3, Sale day	5 1/2 5000.00	Aug 12	1 of bond	244 1/2 4900.00
		5000.00		Interest	210 1/2 500.00
					5000.00
Oct 5	2, Anniversary 94.3	100 1/2 5000.00	Oct 5	1 of bond	422 1/2 5000.00
Nov 6	1, Sale day	2 1/2 5000.00	Nov 23	1 of bond	124 1/2 102.15
Dec 23	1, Bond	60 2 1/2	Dec 23	1, Bond day	124 1/2 5000.00
		30102.15			30102.15

Albert C. Deitz 64 Duane St, New York

1901 Aug 12	2, Anniversary 94.3	58 1/2 2500.00	1901 Aug 1	1 of bond	292 1/2 2500.00
16		60 1/2 2500.00	15		310 1/2 2500.00
15		61 1/2 2500.00	15		340 1/2 2500.00
15		74 1/2 2500.00	15		370 1/2 2500.00
		10000.00			10000.00

Washington Heights 312 W. 18th St, N.Y.C.

1901 Aug 1	2, Anniversary 94.3	58 1/2 2500.00	1901 Aug 1	1 of bond	292 1/2 2500.00
16		60 1/2 2500.00	15		310 1/2 2500.00
15		61 1/2 2500.00	15		340 1/2 2500.00
15		74 1/2 2500.00	15		370 1/2 2500.00
		2500.00			17 1/2 2500.00
		11900.00			11900.00
Dec 31	2, Conf. Bapt. Church	122 1/2 2500.00	Dec 31	1 of bond	2500.00

Mary Elizabeth Carter 453 W. 141 St, New York

1901 Aug 12	2, Anniversary 94.3	58 1/2 1250.00	1901 Aug 12	1 of bond	292 1/2 1250.00
16		60 1/2 1250.00	16		310 1/2 1250.00
15		61 1/2 1250.00	15		340 1/2 1250.00
15		74 1/2 1250.00	15		360 1/2 1250.00
		5000.00			5000.00

David Baird 2 Charles St, New York

1901 Aug 1	2, Anniversary 94.3	58 1/2 1250.00	1901 Aug 12	1 of bond	292 1/2 1250.00
16		60 1/2 1250.00	16		310 1/2 1250.00
15		61 1/2 1250.00	15		340 1/2 1250.00
15		74 1/2 1250.00	15		370 1/2 1250.00
		1250.00			6050.00
Dec 31	2, Conf. Bapt. Church	122 1/2 1250.00	Dec 31	1 of bond	1250.00

Charles J. Warwick 700 W. 141 St, New York

1901 Aug 1	2, Anniversary 94.3	58 1/2 1250.00	1901 Aug 13	1 of bond	292 1/2 1200.00
16		60 1/2 1250.00	16		310 1/2 1200.00
15		61 1/2 1250.00	15		340 1/2 1200.00
15		74 1/2 1250.00	15		370 1/2 1200.00
		1250.00			6050.00
Dec 31	2, Conf. Bapt. Church	122 1/2 1250.00	Dec 31	1 of bond	1250.00

Lucid Staphylinid 20 High Street, Boston, Mass.

1901	Aug	16	To Amusing 49.3	56.50.00	1901	Aug	16	By Cash	56.50.00
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James Lamb 565 Canal St, New York City

1901	Aug	23	To the A. B. 56.50.00		1901	Aug	23	By Cash	56.50.00
1901	Aug	16	To Amusing 49.3	60.50.00	1901	Aug	15	By Cash	60.50.00
1901	Aug	15	To Amusing 49.3	60.50.00	1901	Aug	14	To Cash	55.50.00
1901	Aug	15	To Amusing 49.3	75.50.00	1901	Aug	11	To Cash	55.50.00
1901	Aug	31	Balance	12.50.00	1901	Aug	31	Balance	12.50.00
1901	Aug	31	Balance	59.50.00	1901	Aug	31	Balance	59.50.00
1901	Aug	31	To Cash 12.50.00	12.50.00	1901	Aug	31	To Cash 12.50.00	12.50.00

Thomas J. Lamb 11 High St, New York City

1901	Aug	23	To the A. B. 56.50.00		1901	Aug	23	By Cash	56.50.00
1901	Aug	16	To Amusing 49.3	60.50.00	1901	Aug	15	By Cash	60.50.00
1901	Aug	15	To Amusing 49.3	60.50.00	1901	Aug	14	To Cash	55.50.00
1901	Aug	15	To Amusing 49.3	75.50.00	1901	Aug	11	To Cash	55.50.00
1901	Aug	31	Balance	12.50.00	1901	Aug	31	Balance	12.50.00
1901	Aug	31	Balance	59.50.00	1901	Aug	31	Balance	59.50.00
1901	Aug	31	To Cash 12.50.00	12.50.00	1901	Aug	31	To Cash 12.50.00	12.50.00

Walter W. Jamieson 565 Canal St, New York City

1901	Aug	23	To the A. B. 56.50.00		1901	Aug	23	By Cash	56.50.00
1901	Aug	16	To Amusing 49.3	60.50.00	1901	Aug	15	By Cash	60.50.00
1901	Aug	15	To Amusing 49.3	60.50.00	1901	Aug	14	To Cash	55.50.00
1901	Aug	15	To Amusing 49.3	75.50.00	1901	Aug	11	To Cash	55.50.00
1901	Aug	31	Balance	12.50.00	1901	Aug	31	Balance	12.50.00
1901	Aug	31	Balance	59.50.00	1901	Aug	31	Balance	59.50.00
1901	Aug	31	To Cash 12.50.00	12.50.00	1901	Aug	31	To Cash 12.50.00	12.50.00

J. Mason Thompson 565 Canal St, New York City

1901	Aug	23	To the A. B. 56.50.00		1901	Aug	23	By Cash	56.50.00
1901	Aug	16	To Amusing 49.3	60.50.00	1901	Aug	15	By Cash	60.50.00
1901	Aug	15	To Amusing 49.3	60.50.00	1901	Aug	14	To Cash	55.50.00
1901	Aug	15	To Amusing 49.3	75.50.00	1901	Aug	11	To Cash	55.50.00
1901	Aug	31	Balance	12.50.00	1901	Aug	31	Balance	12.50.00
1901	Aug	31	Balance	59.50.00	1901	Aug	31	Balance	59.50.00
1901	Aug	31	To Cash 12.50.00	12.50.00	1901	Aug	31	To Cash 12.50.00	12.50.00

Lew May 565 Canal St, New York City

1901	Aug	23	To the A. B. 56.50.00		1901	Aug	23	By Cash	56.50.00
1901	Aug	16	To Amusing 49.3	60.50.00	1901	Aug	15	By Cash	60.50.00
1901	Aug	15	To Amusing 49.3	60.50.00	1901	Aug	14	To Cash	55.50.00
1901	Aug	15	To Amusing 49.3	75.50.00	1901	Aug	11	To Cash	55.50.00
1901	Aug	31	Balance	12.50.00	1901	Aug	31	Balance	12.50.00
1901	Aug	31	Balance	59.50.00	1901	Aug	31	Balance	59.50.00
1901	Aug	31	To Cash 12.50.00	12.50.00	1901	Aug	31	To Cash 12.50.00	12.50.00

Beatrix (ma) Northcott

1901 Aug	16	To Amusement Club	56.2500	1901 Sep	6	By Cash	504.2500
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Beatrix Mary Northcott

1901 Aug	16	To Amusement Club	56.2500	1901 Sep	15	By Cash	510.2500
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Miss Sybil Emma Northcott

1901 Aug	16	To Amusement Club	56.2500	1901 Sep	15	By Cash	510.2500
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L. B. Southey

1901 Apr	3	To Amusement Club	54.7500	1901 Apr	4	By Cash	504.7500
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E. Henry Barnes & Henry Barnes New Haven Conn

1901 Apr	5	To Amusement Club	54.7500	1901 Apr	5	By Cash	504.7500
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Richard W Dyer ^{30-1/1901} *Harvard Mass*

1901 Apr	6	To Mrs W Dyer	54.1175.00	1901 Apr	6	By Cash	504.1175.00
	16	To Amusement Club	60.81175.00		17		514.1175.00
1901 Apr	15		68.81175.00	1901 Apr	7		564.1175.00
1901 Apr	15		75.81175.00	1901 Apr	11	Balance	1175.00
			47.00.00				4700.00
Apr	1	To Balance	1175.00	Apr	19	By Cash	9.1175.00
Dec	31	To Balance	12.1250.00			To Amusement Club	17.1250.00
			2425.00				6425.00

Anna Agnes Northcott

1901	3	2	Commencing 94.3	57.2500	1901	5	by	cash	322.2500 00
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Easts. C. Baillie

1901	3	2	Commencing 94.3	57.2500	1901	5	by	cash	322.2500 00
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Mrs Lucy E. Boardman 1/2 the Fairbairn's land
the 1/2 share of land

1901	16	2	Commencing 94.3	66.2500	1901	9	by	cash	300.2500
1901	15			66.2500	1901	10	by		310.2500
1901	15			75.2500	1901	15	by		322.2500
					1901	16	by		322.2500
				10000 00					10000 00

Chick Family (75 1/2 acres of land)

1901	25	2	by H. H. Green	61.2500	1901	3	by	cash	322.2500 00
1901	15		Commencing 94.3	61.2500	1901	3	by		342.2500 00
1901	15			75.2500	1901	1	by		376.2500 00
				3000 00					3000 00

C. E. Family (75 1/2 acres of land)

1901	25	2	by H. H. Green	61.2500	1901	3	by	cash	322.2500 00
1901	15		Commencing 94.3	61.2500	1901	3	by		342.2500 00
1901	15			75.2500	1901	1	by		376.2500 00
				3750 00					3750 00

C. A. Runkel

1901	15	2	Commencing 94.3	66.2500	1901	12	by	cash	322.2500
1901	15			75.2500	1901	12	by		370.2500
				2500 00					2500 00

C. L. Miller, Jr.

1901	May	10	3	Blue Ridge	112750.00	1901	May	1	By Balance	115126250.00
June	31			Dep. Bal. Forward	1126250.00	June	31	3	Blue Ridge	115126000.00
								6	By	1164250.00
					39000.00					39000.00
1901	May	10	3	Blue Ridge	10412750.00	1901	May	29	By Balance	11127325925
May	24				1124300500				By	1164249475
	24			By	1062	May	31		By	11552550.00
									By	1062
									Blue Ridge	112750.00
					2596562					
May	20	3	Blue Ridge	115113011.50	May	27	By	By	11412750.00	
June	3			11641326510				By	117126134	
				11641326510		June	3		By	1191326510
				26276.40						26276.40

(Anthony H. W. Neal) Burlington, N. C.

1901	20	2	Blue Ridge	110114750.00	1901	29	By	112750.00
887	22	1	Blue Ridge	11010200.00	June 3	3	Blue Ridge	114750.00
				24950.00				24950.00
June 1	3	Blue Ridge	11626071.50	June 23	By	By	11426071.50	

1901	Apr 9	3	Blue Ridge	11052050.00	Apr 20	By	110510695.00	
887	21	1	Blue Ridge	1171195	May 17	3	Blue Ridge	115100.00
				520695				520695

William P. Reed				307 Washington St	Brookings SD
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(William P. Rice) 107 Washington St. Brooklyn, N. Y.

1901	Apr 9	3	Blue Ridge	11052050.00	Apr 20	By	110510695.00
May 4		By	1171195	May 17	3	Blue Ridge	115100.00
			520695				520695

1993-57
57144-57
5764-57

Interest

1992	2	Amg fed	131	7941.23	1992	2	Amg fed	131	45144.54
1992	19	H. W. Rauling	115	1224	1992	19	H. W. Rauling	115	1519
1992	2	Amg fed	131	1449	1992	2	Amg fed	131	1519
1992	5	Amg fed	131	1551	1992	5	Amg fed	131	1519
1992	6	H. W. Rauling	116	2400	1992	6	H. W. Rauling	116	2400
1992	1	H. W. Rauling	117	5800	1992	1	H. W. Rauling	117	5800
1992	10	H. W. Rauling	119	10115	1992	10	H. W. Rauling	119	10115
1992	7	H. W. Rauling	119	15555	1992	7	H. W. Rauling	119	15555
1992	15	H. W. Rauling	119	7911	1992	15	H. W. Rauling	119	7911
1992	1	Amg fed	131	10245	1992	1	Amg fed	131	10245
1992	20	H. W. Rauling	120	106254	1992	20	H. W. Rauling	120	106254
1992	23	H. W. Rauling	121	10245	1992	23	H. W. Rauling	121	10245
1992	24	H. W. Rauling	121	11070	1992	24	H. W. Rauling	121	11070
1992	26	H. W. Rauling	121	106254	1992	26	H. W. Rauling	121	106254
1992	31	H. W. Rauling	121	35000	1992	31	H. W. Rauling	121	35000
1992	3	H. W. Rauling	121	10577	1992	3	H. W. Rauling	121	10577
1992	5	H. W. Rauling	121	11041	1992	5	H. W. Rauling	121	11041
1992	7	H. W. Rauling	121	10107	1992	7	H. W. Rauling	121	10107
1992	9	H. W. Rauling	121	10000	1992	9	H. W. Rauling	121	10000
1992	10	H. W. Rauling	121	10000	1992	10	H. W. Rauling	121	10000
1992	15	H. W. Rauling	121	25000	1992	15	H. W. Rauling	121	25000
1992	1	H. W. Rauling	121	58000	1992	1	H. W. Rauling	121	58000
1992	1	Amg fed	131	24500	1992	1	Amg fed	131	24500
1992	1	Amg fed	131	4432	1992	1	Amg fed	131	4432
1992	20	H. W. Rauling	121	12400	1992	20	H. W. Rauling	121	12400
1992	1	Amg fed	131	2524	1992	1	Amg fed	131	2524
1992	1	Amg fed	131	29500	1992	1	Amg fed	131	29500
1992	23	H. W. Rauling	121	12400	1992	23	H. W. Rauling	121	12400
1992	24	H. W. Rauling	121	10000	1992	24	H. W. Rauling	121	10000
1992	29	H. W. Rauling	121	13304	1992	29	H. W. Rauling	121	13304
1992	1	H. W. Rauling	121	25925	1992	1	H. W. Rauling	121	25925
1992	3	H. W. Rauling	121	20000	1992	3	H. W. Rauling	121	20000
1992	3	H. W. Rauling	121	7024	1992	3	H. W. Rauling	121	7024
1992	9	H. W. Rauling	121	10554	1992	9	H. W. Rauling	121	10554
1992	11	H. W. Rauling	121	5125	1992	11	H. W. Rauling	121	5125
1992	17	H. W. Rauling	121	55275	1992	17	H. W. Rauling	121	55275
1992	23	H. W. Rauling	121	1224	1992	23	H. W. Rauling	121	1224
1992	24	H. W. Rauling	121	1025000	1992	24	H. W. Rauling	121	1025000
1992	11	H. W. Rauling	131	1637	1992	11	H. W. Rauling	131	1637
1992	16	H. W. Rauling	131	1445	1992	16	H. W. Rauling	131	1445
1992	1	Amg fed	131	10215	1992	1	Amg fed	131	10215
1992	1	H. W. Rauling	132	40250	1992	1	H. W. Rauling	132	40250
1992	21	H. W. Rauling	133	5224	1992	21	H. W. Rauling	133	5224
1992				154415	1992				154415

Interest

1903 May	21	3 Amey, Fred	1177	1844.85	1903 May	21	3 Amey, Fred	1177	5239.45
	25	2 W. E. Eames	1184	1014.36	21	6	do	1184	36.16
	26	Belting, Brown	1184	11.07		21		1184	506.51
	26	Belting, Brown	1184	266.60				1184	10.52
	27	2 B. B. M. Co.	1184	255.00				1184	579.24
	27	2 B. B. M. Co.	1184	10.62					
	27	Belting, Brown	1184	50.47					
	27	2 W. E. Eames	1184	100.00					
	27	Belting, Brown	1184	14.84					
	27	Belting, Brown	1184	25.49					
Apr	1	W. E. Eames	1184	25.49					
	6	Amey, Fred	1184	15.66					
	6	Amey, Fred	1184	12.59					
	11	2 W. E. Eames	1184	101.67					
	11	Amey, Fred	1184	10.43					
	11	Amey, Fred	1184	166.57					
	14	2 W. E. Eames	1184	101.67					
	16	2 W. E. Eames	1184	159.37					
	17	Belting, Brown	1184	106.70					
	17	2 W. E. Eames	1184	101.67					
	20	2 W. E. Eames	1184	105.40					
	20	W. E. Eames	1184	106.95					
	21	W. E. Eames	1184	5009.64					
	21	2 W. E. Eames	1184	101.67					
	21	Amey, Fred	1184	68.00					
	23	Amey, Fred	1184	117.60					
	24	2 W. E. Eames	1184	117.60					
	24	2 W. E. Eames	1184	565.93					
	25	2 W. E. Eames	1184	127.79					
May	2	Amey, Fred	1184	119.77					
	5	2 W. E. Eames	1184	102.60					
	7	2 W. E. Eames	1184	14.32					
	7	2 W. E. Eames	1184	103.33					
	9	2 W. E. Eames	1184	126.74					
	11	W. E. Eames	1184	261.34					
	13	W. E. Eames	1184	533.69					
	13	W. E. Eames	1184	12.00					
	14	Belting, Brown	1184	109.00					
	16	Belting, Brown	1184	24.44					
	17	W. E. Eames	1184	119.75					
	17	W. E. Eames	1184	24.00					
	17	W. E. Eames	1184	102.50					
	21	W. E. Eames	1184	127.00					
	22	Belting, Brown	1184	26.97					
				2546.50					5792.64

Interest

1903 May	22	3 Amey, Fred	1177	2546.80	1903 May	22	3 Amey, Fred	1177	5792.64
	25	W. E. Eames	1184	10.45		25	W. E. Eames	1184	10.94
	27	2 W. E. Eames	1184	13.79		27	W. E. Eames	1184	10.94
	29	2 B. B. M. Co.	1184	26.15		29	2 B. B. M. Co.	1184	26.15
	29	Belting, Brown	1184	30.74		29	Belting, Brown	1184	30.74
	29	Belting, Brown	1184	12.00		29	Belting, Brown	1184	12.00
	29	Belting, Brown	1184	250.86		29	Belting, Brown	1184	250.86
June	3	2 B. B. M. Co.	1184	26.10		3	2 B. B. M. Co.	1184	26.10
	9	W. E. Eames	1184	24.10		9	W. E. Eames	1184	24.10
	9	W. E. Eames	1184	500.00		9	W. E. Eames	1184	500.00
	11	W. E. Eames	1184	2549.54		11	W. E. Eames	1184	2549.54
	11	W. E. Eames	1184	237.75		11	W. E. Eames	1184	237.75
	11	W. E. Eames	1184	14.50		11	W. E. Eames	1184	14.50
	15	W. E. Eames	1184	25.50		15	W. E. Eames	1184	25.50
	22	Belting, Brown	1184	21.44		22	Belting, Brown	1184	21.44
	22	W. E. Eames	1184	53.42		22	W. E. Eames	1184	53.42
	22	W. E. Eames	1184	526.34		22	W. E. Eames	1184	526.34
	25	W. E. Eames	1184	39.74		25	W. E. Eames	1184	39.74
	26	W. E. Eames	1184	13.33		26	W. E. Eames	1184	13.33
	26	W. E. Eames	1184	54.19		26	W. E. Eames	1184	54.19
	30	W. E. Eames	1184	74.75		30	W. E. Eames	1184	74.75
	30	W. E. Eames	1184	13.81		30	W. E. Eames	1184	13.81
				31796.63					31796.63

J. W. Hagerty Philadelphia 85

1903 Jan 30	By Balance L L 299	680.51	1903 Jan 30	By Cash Payments	94.66	666.90
				" "	157.13	61.61
		680.51				666.90

Amos Shuman Sept 6, 1885

1903 Jan 30	By Balance L L 299	70.44	1903 Jan 30	By Cash Payments	157.00	73.44
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Pilling & Coane

May 1	3	Barren	109 246.55	May 14	4	Chub	147 53.19 00
" 5		Bee Day	114 53.19 00	" 22		Bar	155 12.47 99
" "		"	115 11.57 00	" "		Shanty	148 20.97 1
June 1		"	116 77.60 00	June 9		Chub	152 13.24 45
" 30		Bar 2 L	122 87.27 99	" 17		Shanty	153 93.39 1
				" 22		Bar	154 74.51 1
				" "		Shanty	155 31.47 1
							229 12.60

229 12.60

Mr. Herman Doolittle

May 9	3	Bee Day	142 00 00	May 17	4	Shanty	117 20.50 00
" 1		"	124 15.00 00	" 11		Bar	117 30.25 00
May 16		Shanty	145 35.33	" "		Bar	128 14.69 75
" 16		Bee Day	152 47.62 27	May 16		Shanty	145 24.50 00
			6011 60				6011 60

Rock Hunting Co. & J. J.

May 6	3	Bee Day	121 79.91	May 4	4	Chub	137 79.91 1
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Shells Fishing Co. & J. J.

May 16	3	Bee Day	151 15.55 97	May 16	4	Chub	145 15.55 97
June 16		Bar 2 L	101 49.56 00	June 17		"	151 49.56 00
			2079 60				2079 60

Edison Coal Mining Syndicate Ltd

1902 May	1 3	Coal	19	2590	1902 June	7	By Cash	21	2590
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Hutton Bay & Bottom Mills 236 Spring St. Montreal

1902 Feb 22	3	Coal	16	155203	1902 Feb 22	By Cash	107	153902
					1902 June 30	By Cash	29	15218
								155203

St. H. Ironworks (Montreal & Co)

1902 May 1	By Cash	112	2107	1902 June 12	By Cash	119	3570
20	12	Coal	56	1673			
							3570
							3570

J. C. Richards & Son

1902 May	1 3	By Cash	2	2222 01	1902 May 15	By Cash	17	2222 06
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Compagnie Generale d'Assurances Inc.

1902 June 2	By Cash	3	158277	1902 June 2	By Cash	92	159277
1902 May 2	By Cash	6	106155	1902 May 2	By Cash	48	105272
							109
							923
							106155
1902 June 20	By Cash	154	670404	1902 June 29	By Cash	16	19250 00
20	By Cash	40	2545192				9250 00
							254519
							9250 00

Atlantic Refining Company

1902 May 21	By Cash	110	5500	1902 May 21	By Cash	110	103 50
1	By Cash	40	4550				103 50

Robert A. Kearsby

1942 May	25	2	Bill Rogers	1	142-71	1942 May	25	2	Bill Rogers	25	1450-70
										142-71	25-1
					142-71					142-71	
July	17	3	Carl	27	24-56	July	17	3	Carl	94	24-56
					476-24					94	27-53
			Bill Rogers	4	123-72		24		Bill Rogers	79	142-71
					772-212					174-52	
Aug	17	3	Carl	58	613-91	Aug	29	2	Bill Rogers	118	122-74
			Bill Rogers	7	626-19					122-74	
					1240-10					1240-10	

Gleason Tool Co

[illegible]

General Electric Co

Year	Age	Sex	Species	Weight	Year	Age	Sex	Species	Weight
1912	29	♂	Tree Toad	1 413.15	1912	29	♂	Tree Toad	424 413.15
1912	29	♂	Tree Toad	2 476.69	1912	29	♂	Tree Toad	424 476.69
1912	29	♂	Tree Toad	5 1104.44	1912	29	♂	Tree Toad	424 951 1104.44
1912	29	♂	Tree Toad	29 2429.54	1912	29	♂	Tree Toad	424 994 1699.77
1912	29	♂	Tree Toad	4 625.57	1912	29	♂	Tree Toad	424 100 1131.15
				1144.72					1144.72
1912	29	♂	Tree Toad	54 942.25	1912	29	♂	Tree Toad	424 102 117.36
1912	29	♂	Tree Toad	54 545.44	1912	29	♂	Tree Toad	424 102 1615.90
1912	29	♂	Tree Toad	8 1613.90	1912	29	♂	Tree Toad	424 102 476.69
1912	29	♂	Tree Toad	168 296.11	1912	29	♂	Tree Toad	424 114 942.25
1912	29	♂	Tree Toad	74 245.31	1912	29	♂	Tree Toad	424 114 1104.44
1912	29	♂	Tree Toad	50 224.13	1912	29	♂	Tree Toad	424 114 1051.15
1912	29	♂	Tree Toad	7 1544.78	1912	29	♂	Tree Toad	424 114 1051.15
				1981.56					1981.56

John A. Koebling, Sons & Co

[illegible]

Wheeler Condensers & Engineering Co

1901	21	3	Billie (Agent)	1	5327 46	1901	21	3	Miss Mary	75	5228 00
1901	21	3	Billie (Agent)	1	5327 46	1901	21	3	John	100	104 46
					5327 46						5327 46
July	21	3	Billie (Agent)	4	3551 64	Aug	1	3	Earl	100	104 46
					3551 64						3551 64
Aug	1	3	Billie (Agent)	4	3551 64	Aug	1	3	Earl	100	104 46
					3551 64						3551 64
Aug	1	3	Billie (Agent)	4	3551 64	Aug	1	3	Earl	100	104 46
					3551 64						3551 64
Aug	1	3	Billie (Agent)	4	3551 64	Aug	1	3	Earl	100	104 46
					3551 64						3551 64
Aug	1	3	Billie (Agent)	4	3551 64	Aug	1	3	Earl	100	104 46
					3551 64						3551 64
Aug	1	3	Billie (Agent)	4	3551 64	Aug	1	3	Earl	100	104 46
					3551 64						3551 64
Aug	1	3	Billie (Agent)	4	3551 64	Aug	1	3	Earl	100	104 46
					3551 64						3551 64
Aug	1	3	Billie (Agent)	4	3551 64	Aug	1	3	Earl	100	104 46
					3551 64						3551 64
Aug	1	3	Billie (Agent)	4	3551 64	Aug	1	3	Earl	100	104 46
					3551 64						3551 64
Aug	1	3	Billie (Agent)	4	3551 64	Aug	1	3	Earl	100	104 46
					3551 64						3551 64
Aug	1	3	Billie (Agent)	4	3551 64	Aug	1	3	Earl	100	104 46
					3551 64						3551 64
Aug	1	3	Billie (Agent)	4	3551 64	Aug	1	3	Earl	100	104 46
					3551 64						3551 64
Aug	1	3	Billie (Agent)	4	3551 64	Aug	1	3	Earl	100	104 46
					3551 64						3551 64
Aug	1	3	Billie (Agent)	4	3551 64	Aug	1	3	Earl	100	104 46
					3551 64						3551 64
Aug	1	3	Billie (Agent)	4	3551 64	Aug	1	3	Earl	100	104 46
					3551 64						3551 64
Aug	1	3	Billie (Agent)	4	3551 64	Aug	1	3	Earl	100	104 46
					3551 64						3551 64
Aug	1	3	Billie (Agent)	4	3551 64	Aug	1	3	Earl	100	104 46
					3551 64						3551 64
Aug	1	3	Billie (Agent)	4	3551 64	Aug	1	3	Earl	100	104 46
					3551 64						3551 64
Aug	1	3	Billie (Agent)	4	3551 64	Aug	1	3	Earl	100	104 46
					3551 64						3551 64
Aug	1	3	Billie (Agent)	4	3551 64	Aug	1	3	Earl	100	104 46
					3551 64						3551 64
Aug	1	3	Billie (Agent)	4	3551 64	Aug	1	3	Earl	100	104 46
					3551 64						3551 64
Aug	1	3	Billie (Agent)	4	3551 64	Aug	1	3	Earl	100	104 46
					3551 64						3551 64
Aug	1	3	Billie (Agent)	4	3551 64	Aug	1	3	Earl	100	104 46
					3551 64						3551 64
Aug	1	3	Billie (Agent)	4	3551 64	Aug	1	3	Earl	100	104 46
					3551 64						3551 64
Aug	1	3	Billie (Agent)	4	3551 64	Aug	1	3	Earl	100	104 46
					3551 64						3551 64
Aug	1	3	Billie (Agent)	4	3551 64	Aug	1	3	Earl	100	104 46
					3551 64						3551 64
Aug	1	3	Billie (Agent)	4	3551 64	Aug	1	3	Earl	100	104 46
					3551 64						3551 64
Aug	1	3	Billie (Agent)	4	3551 64	Aug	1	3	Earl	100	104 46
					3551 64						3551 64
Aug	1	3	Billie (Agent)	4	3551 64	Aug	1	3	Earl	100	104 46
					3551 64						3551 64
Aug	1	3	Billie (Agent)	4	3551 64	Aug	1	3	Earl	100	104 46
					3551 64						3551 64
Aug	1	3	Billie (Agent)	4	3551 64	Aug	1	3	Earl	100	104 46
					3551 64						3551 64
Aug	1	3	Billie (Agent)	4	3551 64	Aug	1	3	Earl	100	104 46
					3551 64						3551 64
Aug	1	3	Billie (Agent)	4	3551 64	Aug	1	3	Earl	100	104 46
					3551 64						3551 64
Aug	1	3	Billie (Agent)	4	3551 64	Aug	1	3	Earl	100	104 46
					3551 64						3551 64
Aug	1	3	Billie (Agent)	4	3551 64	Aug	1	3	Earl	100	104 46
					3551 64						3551 64
Aug	1	3	Billie (Agent)	4	3551 64	Aug	1	3	Earl	100	104 46
					3551 64						3551 64
Aug	1	3	Billie (Agent)	4	3551 64	Aug	1	3	Earl	100	104 46
					3551 64						3551 64
Aug	1	3	Billie (Agent)	4	3551 64	Aug	1	3	Earl	100	104 46
					3551 64						3551 64
Aug	1	3	Billie (Agent)	4	3551 64	Aug	1	3	Earl	100	104 46
					3551 64						3551 64
Aug	1	3	Billie (Agent)	4	3551 64	Aug	1	3	Earl	100	104 46
					3551 64						3551 64
Aug	1	3	Billie (Agent)	4	3551 64	Aug	1	3	Earl	100	104 46
					3551 64						3551 64
Aug	1	3	Billie (Agent)	4	3551 64	Aug	1	3	Earl	100	104 46
					3551 64						3551 64
Aug	1	3	Billie (Agent)	4	3551 64	Aug	1	3	Earl	100	104 46
					3551 64						3551 64
Aug	1	3	Billie (Agent)	4	3551 64	Aug	1	3	Earl	100	104 46
					3551 64						3551 64
Aug	1	3	Billie (Agent)	4	3551 64	Aug	1	3	Earl	100	104 46
					3551 64						3551 64
Aug	1	3	Billie (Agent)	4	3551 64	Aug	1	3	Earl	100	104 46
					3551 64						3551 64
Aug	1	3	Billie (Agent)	4	3551 64	Aug	1	3	Earl	100	104 46
					3551 64						3551 64
Aug	1	3	Billie (Agent)	4	3551 64	Aug	1	3	Earl	100	104 46
					3551 64						3551 64
Aug	1	3	Billie (Agent)	4	3551 64	Aug	1	3			

Webster Manufacturing Co

<i>Paid</i>	<i>Nov</i>	21	To Cash	509.1000.00	<i>1872</i>	<i>Nov</i>	21	By New Bank	13109.55
		"	" " (See Above)	2151.74			"	" "	421.9
				5161.74					5151.74

Grand Total Notes Limestone, Pa.

1901 May 21	3, Newberry	50	440.10	1901 May 27	By Cash	9	440.10
21	"	114	500.00	27	"	60	240.10
			740.10		"	120	120.00
			740.10				740.10

Morris Wheeler, Pa.

1902 May 21	3, Newberry	1	465.47	1902 May 27	By Cash	12	459.30
			465.47		"	53	91.67
							465.47

Reading Limestone

1902 May 21	3, Newberry	1	1525.26	1902 May 27	By Cash	12	1789.49
			1525.26		"	15	55.99
							1525.26

Maryland Steel Company

1902 May 21	3, Newberry	73	1173.20	1902 May 27	By Cash	54	1173.20
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Charles Benisch, Pa.

1902 May 21	3, Newberry	75	947.79	1902 May 27	By Cash	176	947.79
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Morris County Machine & Iron Co. Duncans

1902 May 21	3, Newberry	79	2.55	1902 May 27	By Cash	15	2217.60
	"	2	2215.05		"	22	2217.60
			2217.60				951652.25
May 29	3, Newberry	17	2415	May 29	By Cash	16	1652.25
	"	29	1629.13		"	101	291.9
			1652.25				1506.72
Aug 1	3, Newberry	4	1506.72	Aug 1	By Cash	104	22.09
			1506.72		"	27	162.9
Aug 24	3, Newberry	64	1106.15	Aug 24	By Cash	115	151.9
	"	1	543.04		"	29	1506.72
Aug 28	3, Newberry	58	753.56		"		5173.13
	"	1	766.55				
			3173.13				

The Passaic Building Stone Co

1901 June 27	3	Stone	52	912	1901 Aug 1	3	Stone	55	912
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B. F. Charlesworth & Co

1901 May 29	2	Stone	15	1789	1901 May 29	2	Stone	15	1789
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Waltham Manufacturing Co

1901 May 2	2	Stone	15	26074	1901 June 7	2	Stone	15	26074
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Charles E. Weston Company

1901 May 29	2	Stone	15	61200	1901 May 29	2	Stone	15	61200
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The Blomrock Street Scales Co

1901 May 15	3	Stone	15	94163	1901 June 9	3	Stone	15	94163
1901 May 16	3	Stone	15	94163	1901 June 10	3	Stone	15	94163
1901 May 30	3	Stone	15	94163	1901 June 11	3	Stone	15	94163

Alpha Portland Cement Co

1901 June 6	3	Stone	15	23203	1901 June 26	3	Stone	15	23203
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Masonry

1900	1900	1900	1900	1900	1900
Apr	4	20	Barb	53	105.00
	7		Shut down	13	15
	10		Barb	53	102.50
	16			57	104.50
					2.66
	19			61	112.44
	23				34.90
	27			63	41.16
	30				59.4
May	1		Any day	14	32.66
	2		Barb	65	19.22
	14			71	104.30
	15		Any day	106	26.91
	17		Barb	71	107.50
	18				35.00
	19			75	42.57
	23			77	27.95
					91.66
	24			79	215.65
			Shut down	14	12.68
	25		Barb	79	109.44
	30			81	1.57
					175.55
June	2		Any day	13	2.75
	6			15	412.6
	7		Barb	85	25.11
					2.35
	12			17	10.14
					49.00
					31.46
	13			49	34.35
	16			91	43.62
	18		Any day	151	219.24
	19		Shut down		74.41
	21		Shut down	16	140.43
			Barb	93	105.13
					45.17
	26			97	202.62
	29				1.37
July	5			101	63.70
					10.55
					30.00
					107.4
	6		Any day	17	1915.35
					660.54

1000.74

Masonry

1900	1900	1900	1900	1900	1900
July	6	20	Breana	19	5511.76
	12		Barb	101	25
	13			103	23.50
			Any day	17	2070.76
	20		Barb	105	42.77
	21		Shut down	17	550.27
	23		Barb	107	2.23
	25			107	90.75
	31			113	11.60
					24.99
				109	7.59
					233.27
				111	60
					150.00
Aug	2			113	1171.25
	3		Shut down	10	1113.00
	9		Barb	115	81.35
	10		Any day	20	2114.00
	15			21	2637.60
	17		Barb	117	21.57
	21				210.77
				119	56.27
					94.51
	24			121	107.75
					210.71
			Any day	22	2799.63
	27		Shut down	22	235.40
	31		Barb	125	333.20
					51.00
					42.85
				127	55.75
					59.26
				129	2.43
					34.75
	4		W. Burton Co	24	95.50
	6		Barb	131	271.24
	11		Any day	23	2913.00
	12		Barb	131	14.00
					19.12
				135	56.2
	14				97.45
	17		Shut down	23	302.61
	22		Any day	24	2629.44
	25		Barb	137	62.95
					37.07
					2933.70

2933.70

Masonry

1900	1901	1902	1903	1904	1905
1st	25	30	35	40	45
2nd	30	35	40	45	50
3rd	35	40	45	50	55
4th	40	45	50	55	60
5th	45	50	55	60	65
6th	50	55	60	65	70
7th	55	60	65	70	75
8th	60	65	70	75	80
9th	65	70	75	80	85
10th	70	75	80	85	90
11th	75	80	85	90	95
12th	80	85	90	95	100
13th	85	90	95	100	105
14th	90	95	100	105	110
15th	95	100	105	110	115
16th	100	105	110	115	120
17th	105	110	115	120	125
18th	110	115	120	125	130
19th	115	120	125	130	135
20th	120	125	130	135	140
21st	125	130	135	140	145
22nd	130	135	140	145	150
23rd	135	140	145	150	155
24th	140	145	150	155	160
25th	145	150	155	160	165
26th	150	155	160	165	170
27th	155	160	165	170	175
28th	160	165	170	175	180
29th	165	170	175	180	185
30th	170	175	180	185	190
31st	175	180	185	190	195
32nd	180	185	190	195	200
33rd	185	190	195	200	205
34th	190	195	200	205	210
35th	195	200	205	210	215
36th	200	205	210	215	220
37th	205	210	215	220	225
38th	210	215	220	225	230
39th	215	220	225	230	235
40th	220	225	230	235	240
41st	225	230	235	240	245
42nd	230	235	240	245	250
43rd	235	240	245	250	255
44th	240	245	250	255	260
45th	245	250	255	260	265
46th	250	255	260	265	270
47th	255	260	265	270	275
48th	260	265	270	275	280
49th	265	270	275	280	285
50th	270	275	280	285	290
51st	275	280	285	290	295
52nd	280	285	290	295	300
53rd	285	290	295	300	305
54th	290	295	300	305	310
55th	295	300	305	310	315
56th	300	305	310	315	320
57th	305	310	315	320	325
58th	310	315	320	325	330
59th	315	320	325	330	335
60th	320	325	330	335	340
61st	325	330	335	340	345
62nd	330	335	340	345	350
63rd	335	340	345	350	355
64th	340	345	350	355	360
65th	345	350	355	360	365
66th	350	355	360	365	370
67th	355	360	365	370	375
68th	360	365	370	375	380
69th	365	370	375	380	385
70th	370	375	380	385	390
71st	375	380	385	390	395
72nd	380	385	390	395	400
73rd	385	390	395	400	405
74th	390	395	400	405	410
75th	395	400	405	410	415
76th	400	405	410	415	420
77th	405	410	415	420	425
78th	410	415	420	425	430
79th	415	420	425	430	435
80th	420	425	430	435	440
81st	425	430	435	440	445
82nd	430	435	440	445	450
83rd	435	440	445	450	455
84th	440	445	450	455	460
85th	445	450	455	460	465
86th	450	455	460	465	470
87th	455	460	465	470	475
88th	460	465	470	475	480
89th	465	470	475	480	485
90th	470	475	480	485	490
91st	475	480	485	490	495
92nd	480	485	490	495	500
93rd	485	490	495	500	505
94th	490	495	500	505	510
95th	495	500	505	510	515
96th	500	505	510	515	520
97th	505	510	515	520	525
98th	510	515	520	525	530
99th	515	520	525	530	535
100th	520	525	530	535	540

Masonry

1900	1901	1902	1903	1904	1905
1st	25	30	35	40	45
2nd	30	35	40	45	50
3rd	35	40	45	50	55
4th	40	45	50	55	60
5th	45	50	55	60	65
6th	50	55	60	65	70
7th	55	60	65	70	75
8th	60	65	70	75	80
9th	65	70	75	80	85
10th	70	75	80	85	90
11th	75	80	85	90	95
12th	80	85	90	95	100
13th	85	90	95	100	105
14th	90	95	100	105	110
15th	95	100	105	110	115
16th	100	105	110	115	120
17th	105	110	115	120	125
18th	110	115	120	125	130
19th	115	120	125	130	135
20th	120	125	130	135	140
21st	125	130	135	140	145
22nd	130	135	140	145	150
23rd	135	140	145	150	155
24th	140	145	150	155	160
25th	145	150	155	160	165
26th	150	155	160	165	170
27th	155	160	165	170	175
28th	160	165	170	175	180
29th	165	170	175	180	185
30th	170	175	180	185	190
31st	175	180	185	190	195
32nd	180	185	190	195	200
33rd	185	190	195	200	205
34th	190	195	200	205	210
35th	195	200	205	210	215
36th	200	205	210	215	220
37th	205	210	215	220	225
38th	210	215	220	225	230
39th	215	220	225	230	235
40th	220	225	230	235	240
41st	225	230	235	240	245
42nd	230	235	240	245	250
43rd	235	240	245	250	255
44th	240	245	250	255	260
45th	245	250	255	260	265
46th	250	255	260	265	270
47th	255	260	265	270	275
48th	260	265	270	275	280
49th	265	270	275	280	285
50th	270	275	280	285	290
51st	275	280	285	290	295
52nd	280	285	290	295	300
53rd	285	290	295	300	305
54th	290	295	300	305	310
55th	295	300	305	310	315
56th	300	305	310	315	320
57th	305	310	315	320	325
58th	310	315	320	325	330
59th	315	320	325	330	335
60th	320	325	330	335	340
61st	325	330	335	340	345
62nd	330	335	340	345	350
63rd	335	340	345	350	355
64th	340	345	350	355	360
65th	345	350	355	360	365
66th	350	355	360	365	370
67th	355	360	365	370	375
68th	360	365	370	375	380
69th	365	370	375	380	385
70th	370	375	380	385	390
71st	375	380	385	390	395
72nd	380	385	390	395	400
73rd	385	390	395	400	405
74th	390	395	400	405	410
75th	395	400	405	410	415
76th	400	405	410	415	420
77th	405	410	415	420	425
78th	410	415	420	425	430
79th	415	420	425	430	435
80th	420	425	430	435	440
81st	425	430	435	440	445
82nd	430	435	440	445	450
83rd	435	440	445	450	455
84th	440	445	450	455	460
85th	445	450	455	460	465
86th	450	455	460	465	470
87th	455	460	465	470	475
88th	460	465	470	475	480
89th	465	470	475	480	485
90th	470	475	480	485	490
91st	475	480	485	490	495
92nd	480	485	490	495	500
93rd	485	490	495	500	505
94th	490	495	500	505	510
95th	495	500	505	510	515
96th	500	505	510	515	520
97th	505	510	515	520	525
98th	510	515	520	525	530
99th	515	520	525	530	535
100th	520	525	530	535	540

The Cincinnati Edison Electric Co Cincinnati Oh

1899	Apr 16	20	Load	214 4250.00	1899	May 11	Ch Cincinnati Edison	214 4250.00
<hr/>								
Vickerman's Postpaid Laundry Co								
June	25	2	Manning	164 54.70	1899	Aug 5	Ch Manning	164 54.70
Aug	5		Load	113.1724.22				
				1413.00				
Dec	1	2	Manning	294 294.00	Dec	21	Ch Manning	294 294.00
				1031 50.50				
				294.00				

Vogel's Electric Store 15 and 30 and 50 p. and more
any day any day 1899

Pay Roll

1899	Apr 17	20	Load	776 345.00	1899	May 27	Ch Cincinnati	114 367.44
				178 22.75				367.44
				367.44				367.44
April	3	20	Load	534 545.55	May	1	Ch Cincinnati	151 535.55
				776 345.00				1435 37.40
May	2			654 505.54	June	1		151 599.09
				714 506.54				151 506.54
June	4			754 615.41				151 506.54
				164 47.57				17 624.90
				714 6179.64				16450.99
July	1			1014 643.65				
				174 19.50				
				3315.40				3315.40
July	17	20	Load	1054 599.09	Aug	13	Ch Cincinnati	204 591.54
				114 724.07				21 725.42
				201 14.69				131.70
				214 15.25				131.70
				1315.70				1315.70
Aug	20	20	Load	117 724.04	Aug	27	Ch Cincinnati	22 724.79
				214 54.75				23 761.23
Sept	4		Load	133 599.90				24 695.20
				234 17.25				25 753.05
				135 593.05				25 912.20
				244 19.00				26 967.47
Oct	4		Load	143 613.12				27 655.47
				244 15.93				29 709.49
				154 916.20				33 803.59
				1074 500.00				35 751.46
				163 904.50				39 724.56
				264 47.77				40 773.46
				169 654.22				33 500.00
				204 19.25				
Dec	4		Load	175 709.96				
				174 794.00				
				524 54.66				
				1054 500.00				
1901	Jan	5		179 6615.16				
				554 12.30				
				177 744.00				
				594 11.27				
				204 500.00				
				107 744.44				
				404 47.02				
				211 500.00				
				950.44				

Pay-roll

1901	13	3	Balanced	201	500.00	Feb 25	of	Endrine	4446420748
Feb	19		End	214604176	Mar 5				4596716474
	23			4 500.00	25				47457594
	25		Endrine	444 4494	25				4646031214
Mar	4		End	224635549	25				47457594
	7			224 500.00	25				47457594
	8		Endrine	444 60.50	24				47457594
	19		End	224710594	24				47457594
	25			224 400.00	24				47457594
	25		Endrine	444 5165	24				47457594
Apr	1		End	224755440	24				47457594
	6			224 400.00	24				47457594
	8		Endrine	444 42.00	24				47457594
	10		End	224762223	24				47457594
	23		Endrine	444 6926	24				47457594
	25		End	224 400.00	24				47457594
May	3			224760204	24				47457594
	6			4 500.00	24				47457594
	7		Endrine	444 42.40	24				47457594
	10		End	2247541691	24				47457594
	1			4 500.00	24				47457594
	24		Endrine	444 51.50	24				47457594
June	4		End	224767518	24				47457594
	8		Endrine	444 3761	24				47457594
	19		End	2247672708	24				47457594
	1			4 500.00	24				47457594
	24		Endrine	444 1447	24				47457594
July	1		End	224767403	24				47457594
	6		Endrine	444 500.00	24				47457594
	10		End	224765164	24				47457594
	1			4 500.00	24				47457594
	24		Endrine	444 4414	24				47457594
Aug	1			444 5913	24				47457594
	3		End	224764314	24				47457594
	19			4 500.00	24				47457594
	19			474563971	24				47457594
	25		Endrine	444 50.25	24				47457594
Sept	4		End	224762254	24				47457594
	1			500.00	24				47457594
	7		Endrine	444 2946	24				47457594

107654

Pay-roll

1901	7	3	Balanced	224 500.00	16	of	Endrine	544525175
Feb	14		End	2247460415	16			634574067
				4 500.00	16			62457495
	16		Endrine	544 63.00	16			654745728
Mar	3		End	2247519900	16			694725744
				4 500.00	16			704769111
	12		Endrine	624 51.07	16			714794020
	15		End	224757579	16			744704042
				4 500.00	16			7747170464
	23		Endrine	624 1706	16			7847164021
Apr	5		End	224764475	16			7947204024
	6			4 500.00	16			8147244025
	11		Endrine	624 7244	16			8347274024
	19		End	2247669525	16			8447314025
				4 500.00	16			8547354026
	26		Endrine	624 8210	16			8647394027
May	4		End	2247717023	16			8747434028
				4 500.00	16			8847474029
	9		Endrine	704 2044	16			8947514030
	11		End	2247745364	16			9047554031
				4 500.00	16			9147594032
1901	21		Endrine	724 7600	16			9247634033
July	21		End	2247750000	16			9347674034
	24			2247794944	16			9447714035
				4 1000.00	16			9547754036
	10		Endrine	724 7924	16			9647794037
	10		End	2247802954	16			9747834038
				4 1000.00	16			9847874039
	20		Endrine	724 7510	16			9947914040
Aug	24		End	2247854231	16			10047954041
				4 1000.00	16			10147994042
	5		Endrine	724 5790	16			10248034043
	19		End	2247901465	16			10348074044
				4 1000.00	16			10448114045
	24		Endrine	724 6549	16			10548154046
Sept	24		End	2247975944	16			10648194047
				4 1000.00	16			10748234048
	1			444 5441	16			10848274049
	20			22479169014	16			10948314050
				1000.00	16			11048354051
	24		Endrine	724 7130	16			11148394052

112764

Model

1900	May	31	By Capt. Lane	124,953.64	1902	May	31	By Balance	1117090
Apr	11	.	cash	53.	190				
	19	.	.	59.	25				
May	11	.	.	69.	1221				
	11	.	.	75.	70651				
	31	.	.	10.	592				
June	22	.	.	95.	51915				
May	5	.	Transferred Wt.	26.	12712				
	6	.	cash	163.	15				
	23	.	.	17.	12712				
Dec	11	.	.	177.	27075				
	20	.	.	144.	225				
1901	May	10	.	195.	29				
	11	.	.	.	7124				
	23	.	.	199.	165				
	31	.	.	205.	125				
July	6	.	.	207.	611				
	21	.	.	215.	555				
	21	.	.	217.	552				
Aug	6	.	.	221.	53				
	.	.	.	.	75				
	7	.	.	223.	737				
	21	.	.	229.	265				
	27	.	.	233.	25				
July	12	.	.	234.	274				
Aug	9	.	.	243.	665				
Oct	3	.	.	321.	378				
1902				1117090		1902			1117090
Apr	1	.	By Balance	1117090	June	30	By Balance	1117090	1117090

Rolls

1908				1902				1901			
Month	Day	Supplement	Amount	Month	Day	Balance	Amount	Month	Day	Balance	Amount
Jan	31		1225.79	Jan	31	1607.96		Jan	31	1607.96	
Apr	20	Card	63.								
	27		64.								
May	2		65.								
	4		22.09								
	11		67.								
			49								
			69.								
	17		71.								
	18		73.								
			135.13								
	21		77.								
	24		79.								
June	21	of 1898	16.								
			1607.96								
1902				1901							
May	1	of Balance	1607.96	June	30	of Balance	1607.96				

Rooster

1900 Month	1900 Day	1900 Hour	1900 Min	1900 Sec	1900 Total
11	2	12	15	51	14760.22
11	1	15	4	51	
11	1	53	150	54	
11	1	24	6	1	
11	1	150	99		
11	1	100	40		
11	1	55	3	49	
11	1	99			
11	1	12	2		
11	1	2	73		
11	1	147	50		
11	1	100	00		
11	1	67	49		
11	1	52	36		
11	1	00	39		
11	1	5	41		
11	1	24	54		
11	1	10	00		
11	1	7	12		
11	1	7	92		
11	1	5	140		
11	1	1	52		
11	1	17	21		
11	1	59	3	60	
11	1	11	10		
11	1	1	22		
11	1	9	90		
11	1	11	24		
11	1	1	97		
11	1	2	11		
11	1	6	705		
11	1	12	74		
11	1	1	97		
11	1	10	25		
11	1	68	12	27	
11	1	17	40		
11	1	65	14	65	
11	1	15	474		
11	1	23	144		
11	1	67	136	14	
11	1	15	510		
11	1	24	15		
11	1	220			
11	1	292			
11	1	147	60	22	

Rooster

1900 Month	1900 Day	1900 Hour	1900 Min	1900 Sec	1900 Total
11	2	14	76	22	14760.22
11	1	59	4	69	
11	1	5	57		
11	1	8	98		
11	1	12	457		
11	1	6	47		
11	1	7	1	67	
11	1	20	21		
11	1	73	19	22	
11	1	150	06		
11	1	142	14		
11	1	75	67	25	
11	1	5	75		
11	1	4	40		
11	1	4	40		
11	1	2	09		
11	1	13	07		
11	1	106	40		
11	1	4	37		
11	1	77	38	70	
11	1	2	130		
11	1	9	240		
11	1	36	11		
11	1	101	7	40	
11	1	77	2	50	
11	1	10	455		
11	1	6	406		
11	1	11	543		
11	1	10	41		
11	1	2	577		
11	1	6	468		
11	1	4	70		
11	1	47	4976		
11	1	29	24		
11	1	43	56		
11	1	15	29		
11	1	22	61		
11	1	3	46		
11	1	47	42		
11	1	9	16	95	
11	1	1	01		
11	1	93	2	136	
11	1	2	61		
11	1	2	2		
11	1	149	6	31	

Rooster

1990	June 21	2, 2, 2, 2, 2, 2	21, 19, 50, 45, 40, 11	2, 2, 2, 2, 2, 2	21, 19, 50, 45, 40, 11
		Barb	95, 14, 54		
			44, 45		
	22		115, 437		
			77, 260		
	29		99, 363		
July	6		101, 34, 44		
	12		28, 52		
	13		103, 16, 70		
			54, 73		
	16		105, 63, 77		
	20		19, 61		
	26		107, 14, 90		
	31		109, 14, 57		
			119, 64		
			111, 17, 44		
Aug	2		113, 15, 13		
	8		115, 15, 10		
	9		21, 59		
			50, 5		
			59, 95		
			29, 92		
	17		117, 14, 79		
			12, 05		
	22		119, 11, 77		
			11, 10		
	24		121, 12, 56		
			19, 00		
	31		123, 15, 14		
			34, 24		
			127, 63, 0		
			1, 157		
			10, 24		
			129, 72, 0		
			131, 21, 96		
Sept	6		133, 16, 28		
	12		3, 15		
	14		135, 8, 25		
	20		137, 20, 30		
	25		139, 3, 25		
	26		4, 00		
			5, 40		
Oct	10		141, 12, 05		
			23, 53, 50		

Rooster

1990	Oct 10	2, 2, 2, 2, 2, 2	21, 23, 133, 145, 140, 16	2, 2, 2, 2, 2, 2	21, 23, 133, 145, 140, 16
	12	Barb	145, 55, 94		
			7, 14		
			147, 19, 4		
			149, 2, 43		
	24		151, 19, 96		
	29		5, 39		
Nov	5		153, 7, 49		
	22		11, 90, 55		
	23		50		
Dec	11		177, 2, 16		
	20		181, 3, 40, 15		
1991	9		191, 2, 49, 5		
			2, 49, 5		
	11		195, 7, 02		
	16		1, 10, 14		
			3, 15		
	25		201, 13, 12, 2		
	31		203, 6, 45		
July	2		207, 13, 2, 20		
	8		209, 33, 95		
	11		211, 1, 10		
			4, 45		
	15		213, 15, 47		
	21		215, 3, 0		
	26		217, 2, 4, 10		
			15, 00		
	27		219, 50, 49		
			32, 60		
Aug	6		221, 9, 6, 6		
			60		
	7		223, 27		
	11		225, 2, 0		
	16		227, 2, 81		
			1, 60		
	21		229, 60		
			60		
	27		231, 2, 2, 2, 2, 2		
			233, 2, 2, 2, 2, 2		
April	12		235, 2, 2, 2, 2, 2		
	17		237, 2, 47		
			2, 10		
			2, 40		
	25		239, 2, 56		
	26		241, 3, 1		
			243, 2, 40, 20		

Assaying

1900	April	31	To Byf 5 Barren	12.5	4261.51	1900	May	31	By Barren	12.5	4261.51
May	16	To	Bar	67.5	53	May	31	To	Barren	20.14	
1901	May	7		105.5	1.59						
		9		223.5	1.50						
					3.02						
1902	April		To Barren		20.14	1905	June	30	To Barren	22.105	55.14.6
1902	May	11	Barren	12.5	3.500						
					55.14						

The Marine Land Co

412 3/4 Barren

1900	May	24	To Hunter's bar	25	306.44	1900	May	31	To Bar	119	119
May	25				2171.07	May	31	To	Barren	990.471	
May	18				3447.31						
May	5		Bar	25	93.11						
			Bar		101.2969.72						
June	15		Barren	59	1.119						
			Bar		1791.4713.53						
1901	May	9	Barren	55	1.119						
			Bar		191.3101.69						
			Bar		201.5645.45						
July	8		Barren & Bar	40	95.80						
			Bar		211.9405.00						
					213.1133.62						
June	22				211.3097.74						
April	19				243.2064.71						
May	10				255.451.94						
June	20				271.6432.24						
July	26				283.6123.40						
Aug	3				289.2159.25						
					295.4144.15						
					297.2044.42						
					301.4490.01						
					303.71.25						
Sept	12				311.5649.21						
					317.1027.44						
					319.5764.77						
Nov	11				337.6333.79						
1901	Jan	5			365.7032.24						
April	1				379.3410.40						
					390.471.90						
April	1	To Barren			990.471	1902	May	4	To	Barren	990.471
		Barren			1093.970	May	29	To	Barren	151.214.51	
May	29				2440.66.77	June	31	To	Barren	98.20.14	
					114115.35						
					1152.0.7						

Experiments

May	31	Exp. 3. 1st run	12.5723	57	1908	June 6	Exp. 5. 1st run	12.5723	57	40	51
Apr	11	1st run	53.1	779	12	12	1st run	53.1	779	6.24	51
	12	2nd run	53.1	779	16	16	2nd run	53.1	779	6.24	51
	14	3rd run	59.1	190	24	24	3rd run	59.1	190	6.24	51
May	15	4th run	67.1	150	31	31	4th run	67.1	150	6.24	51
	16	5th run	73.1	207			5th run	73.1	207	6.24	51
June	17	6th run	95.1	105.41			6th run	95.1	105.41	6.24	51
July	16	7th run	105.1	2.40			7th run	105.1	2.40	6.24	51
Aug	31	8th run	131.1	90			8th run	131.1	90	6.24	51
Oct	24	9th run	155.1	80			9th run	155.1	80	6.24	51
Nov	24	10th run	184.1	9.30			10th run	184.1	9.30	6.24	51
Dec	12	11th run	357.1	262.40			11th run	357.1	262.40	6.24	51
Jan	19	12th run	357.1	77			12th run	357.1	77	6.24	51
	21	13th run	39.1	79.95			13th run	39.1	79.95	6.24	51
	25	14th run	20.1	2.40			14th run	20.1	2.40	6.24	51
Feb	1	15th run	40.1	10.423			15th run	40.1	10.423	6.24	51
	12	16th run	41.1	6.14			16th run	41.1	6.14	6.24	51
	25	17th run	44.1	96.49			17th run	44.1	96.49	6.24	51
Mar	1	18th run	44.1	2.40			18th run	44.1	2.40	6.24	51
	1	19th run	45.1	5.125			19th run	45.1	5.125	6.24	51
Apr	23	20th run	47.1	20.79			20th run	47.1	20.79	6.24	51
May	1	21st run	50.1	11.71			21st run	50.1	11.71	6.24	51
	12	22nd run	51.1	79.1			22nd run	51.1	79.1	6.24	51
	24	23rd run	51.1	527.45			23rd run	51.1	527.45	6.24	51
June	6	24th run	52.1	455.35			24th run	52.1	455.35	6.24	51
	9	25th run	53.1	19.39			25th run	53.1	19.39	6.24	51
	24	26th run	54.1	101.54			26th run	54.1	101.54	6.24	51
Aug	1	27th run	54.1	19.171			27th run	54.1	19.171	6.24	51
	1	28th run	54.1	4.62			28th run	54.1	4.62	6.24	51
Oct	12	29th run	63.1	7.95			29th run	63.1	7.95	6.24	51
	23	30th run	63.1	2.40			30th run	63.1	2.40	6.24	51
Nov	11	31st run	65.1	11.733			31st run	65.1	11.733	6.24	51
Dec	21	32nd run	71.1	11.755			32nd run	71.1	11.755	6.24	51
Jan	10	33rd run	74.1	2.40			33rd run	74.1	2.40	6.24	51
	23	34th run	77.1	13.79			34th run	77.1	13.79	6.24	51
Mar	31	35th run	79.1	1.45			35th run	79.1	1.45	6.24	51
Apr	1	36th run	81.1	15.44			36th run	81.1	15.44	6.24	51
May	1	37th run	81.1	2.40			37th run	81.1	2.40	6.24	51
	25	38th run	81.1	4.55			38th run	81.1	4.55	6.24	51
Aug	9	39th run	91.1	11.52			39th run	91.1	11.52	6.24	51
June	27	40th run	94.1	11.52			40th run	94.1	11.52	6.24	51
	10	41st run	95.1	0.9			41st run	95.1	0.9	6.24	51
	12	42nd run	95.1	2.40			42nd run	95.1	2.40	6.24	51
	16	43rd run	95.1	2.40			43rd run	95.1	2.40	6.24	51

Experiments

June	15	Exp. 6. 1st run	210	8152.72	1908	June 30	Exp. 7. 1st run	210	8152.72	106	8665.24
	27	2nd run	24.1	162			2nd run	24.1	162		
July	1	3rd run	97.1	8152.72			3rd run	97.1	8152.72		
	10	4th run	97.1	69			4th run	97.1	69		
	12	5th run	27.1	47.60			5th run	27.1	47.60		
	23	6th run	99.1	25.41			6th run	99.1	25.41		
Aug	5	7th run	53.1	829.320			7th run	53.1	829.320		
	9	8th run	101.1	60.52			8th run	101.1	60.52		
	11	9th run	102.1	0.1			9th run	102.1	0.1		
	25	10th run	105.1	4.55			10th run	105.1	4.55		
Sept	1	11th run	59.1	8365.15			11th run	59.1	8365.15		
Oct	5	12th run	112.1	2364.53			12th run	112.1	2364.53		
Nov	23	13th run	120.1	52.52			13th run	120.1	52.52		
Dec	2	14th run	61.1	14.23			14th run	61.1	14.23		
Jan	24	15th run	129.1	14.23			15th run	129.1	14.23		
Feb	20	16th run	133.1	14.23			16th run	133.1	14.23		
Mar	23	17th run	70.1	14.23			17th run	70.1	14.23		
Apr	1	18th run	122.1	14.23			18th run	122.1	14.23		
	1	19th run	143.1	54.91			19th run	143.1	54.91		
	14	20th run	145.1	42.7			20th run	145.1	42.7		
	1	21st run	150.1	22.96			21st run	150.1	22.96		
	24	22nd run	147.1	41.2			22nd run	147.1	41.2		
June	5	23rd run	150.1	62.18			23rd run	150.1	62.18		
	1	24th run	150.1	20.17			24th run	150.1	20.17		
	11	25th run	150.1	75.1			25th run	150.1	75.1		
	1	26th run	150.1	16.11			26th run	150.1	16.11		
	17	27th run	91.1	19.21			27th run	91.1	19.21		
	23	28th run	155.1	6.72			28th run	155.1	6.72		
	24	29th run	156.1	9.44			29th run	156.1	9.44		

Patterns

1900	March	31	By Exp'd Store	12	273.15	180	161.60
April	11		bank	53	120	2012.01	
					1770		
	19			57	330		
					335		
				59	125		
	26			61	7455		
				63	300		
May	2			65	140		
	5			66	1430		
	11			69	1221		
					263		
	14			71	153		
				73	375		
	29			79	89.05		
				74	140		
June	31			83	262		
	7			87	62		
	13			89	375		
	21			95	240		
	22			97	1040		
	29			99	720		
	30				591		
July	6			101	412		
	12			103	120		
	13				5365		
					967		
					943		
	16			105	90		
	20				165		
	26			107	245		
	31			109	8707		
					66730		
				111	210		
Aug	9			113	420		
				115	1055		
					167		
	17			117	50		
					195		
	31			123	265		
					140		
				127	1121		
				131	66909		
	1			133	217240		
					2173.61		
							2173.61

2173.61

Patterns

1901	Feb	1	3	Baron	211-2012.01	1901	Feb	7	of Lumber	354	6437
		12		bank	133, 6352	Apr	9		Bank	2204	10
		16			155 46475	June	7		Baron	220	703531
		24			181 54010						
		29			155 76506						
					114.11						
					549						
		30			119, 225						
Mar		5			163, 3459.52						
		6			53						
		7			5639						
					165, 321						
		22			171, 55470						
		23			75						
					75						
		10			401.05						
Dec		11			77, 4274						
		25			64234						
					103, 50515						
		31			105, 121.44						
1901	Jan	9			191, 407405						
					30						
		10			195, 212						
		14			42404						
		23			79, 5316.40						
		25			201, 27601						
		31			205, 210						
Feb		14			213, 577.24						
		21			215, 75						
					30						
		26			217, 106142						
Mar		6			221, 570154						
		7			223, 41721						
		9			225, 606						
		21			229, 30						
		27			233, 6325.58						
		30			235, 626.05						
April		6			237, 645						
		29			239, 2596						
		30			247, 400						
		30			249, 106						
May		24			251, 650.52						
June		14			257, 15370						
					90.05						
		17			25						
					60						
					709974						

709974

Patterns

1901	Jan	17	By Balance	219,703.53	1901	Jan	31	By Balance	10303.47
		20	Good	275.3875					
	July	12	"	253.32648					
	Aug	9	"	275.23030					
		22	"	299.814					
		"	"	301.1022					
		"	"	303.68					
	Oct	3	"	321.33830					
		21	"	329.25					
		29	"	329.300					
	Nov	7	"	335.1156					
		"	"	307.43					
	Dec	13	"	308.9010					
			"	20					
	1902	7	"	371.65491					
	Aug	17	"	371.37565					
		29	"	375.33250					
	Feb	1	"	377.127135					
		15	"	381.264					
		25	"	383.100305					
			"	10303.47					
1902	Mar	1	By Balance	10303.47	1902	Jan	31	By Balance	10303.47
		2	Good	1.10221					
	Jan	15	"	22.10221					
			"	10326.07					
			"	10326.07					

Conveyors

1930	1931	1932	1933	1934	1935	1936	1937	1938
Mar 1	31	21	1112	19	20	By	1937	15
Apr	11	1	1205	10	10	By	1937	15
			16					
			1372					
			1061					
			4830					
			1343					
			25					
			131					
			776					
			675					
			590					
			5609					
			1242					
			5160					
			910					
			1022					
			665					
			206					
			59037					
			127					
			120					
			459					
			453					
			119					
			294					
			905					
			2097					
			650					
			2992					
			224					
			97					
			694					
			1024					
			4704					
			1034					
			315					
			73					
			266					
			150					
			60					
			2130					
			70					
			1912					
			1937					

Conveyors

1930	1931	1932	1933	1934	1935	1936	1937	1938
Mar 1	31	21	1112	19	20	By	1937	15
Apr	11	1	1205	10	10	By	1937	15
			16					
			1372					
			1061					
			4830					
			1343					
			25					
			131					
			776					
			675					
			590					
			5609					
			1242					
			5160					
			910					
			1022					
			665					
			206					
			59037					
			127					
			120					
			459					
			453					
			119					
			294					
			905					
			2097					
			650					
			2992					
			224					
			97					
			694					
			1024					
			4704					
			1034					
			315					
			73					
			266					
			150					
			60					
			2130					
			70					
			1912					
			1937					

Comyors

1918	16	2	Only food	225	4831.65	1918	16	2	of equipment	225	6.00
May	19		back	154	375	1918	16		Basement	225	6.13.64
	20			155	115						
					5.58						
					10.95						
					5.75						
	24			155	377.41						
					5.80						
	29				22.22						
					10.36						
					23.04						
	30			157	4.06						
					2.83						
May	5		Basement	225	370.15						
			back	163	4.95						
	6				10.99						
	7			165	108.65						
					13						
	7			167	12.59						
					21.17						
					4.90						
					24.20						
					9.44						
	22			171	549.16						
	23				16.95						
					26.64						
	27			175	247.5						
May	1			175	27.22						
	4				54.13						
	10			177	21.90						
	11				630.65						
	15			179	2.01						
					4.03						
	20			184	40.61						
					48.62						
	21			184	1.54						
	26				54.32						
	31			185	2.10						
1919	9			191	25.71						
					26.50						
					44.56						
	10			193	13						
					17.95						
					3.72						
					6719.69						

6719.69

Comyors

1918	10	2	Basement	6015.69	1918	16	2	Only food	10359.32
May			back	191	3.55				
					5.25				
					2.24				
				195	2.14				
	11				627.39				
	16				62.64				
	17			197	30.62				
	23			199	90				
					176				
					45.67				
	24				152.60				
	25			201	76.22				
	26				403.44				
					13.47				
	30			203	1.44				
					3.33				
	31				43.04				
				205	32.32				
May	2			207	12.61				
	6			207	95.60				
					36.69				
					2.91				
					19.46				
				209	3.06				
					5.40				
	6			211	12.90				
	14			213	3.00				
					2.20				
	15				1.50				
					16.66				
	19			215	3.31				
	21				30.04				
					52.14				
					107.53				
	26				147.45				
					2.00				
					6.20				
May	6			221	73.72				
					15.69				
	7			223	5.04				
					1462.50				
	9				10.09				
				225	25.99				
					55.10				
	16			227	7.36				
					10359.32				

3.34

10359.32

Bagging Machine)

1900	April	21	To Exp. Cherry	12	1271	41	1900	Apr. 21	By Statement	530
	Apr	11	land	53	170		1901	Apr. 11	By Statement	2007 54
		16		59	1176					
		19		59	190					
					231					
		30		63	133					
	May	11		69	144					
		16		73	63 10					
		19		75	122					
					153					
	June	12		77	60					
		21		98	133					
		22		95	15401					
	July	13		103	134					
		16		105	201					
		31		109	15 - 15					
				117	170 65					
	Aug	17		117	125					
		21		123	17 2 33					
				125	60					
				131	300 27					
	Oct	29		157	25 15 25					
					2010 64					
1901	Apr	1	To Balance	2007 54	1901	Apr 30	By Bal & L	105	2007 54	

Screens

1900	May	31	By Exp'd. Screen	124	269.50	1900	May	31	By Balance	866.61
Apr	12	.	Bad	55	66.52					
May	18	.		74	160.31					
	30	.		74	2.53					
June	21	.		93	33					
	22	.		95	41					
Aug	31	.		123	59					
Sept	20	.		137	6.50					
May	22	.		171	50					
1901	May	22	.	199	40					
Sept	6	.		209	43.5					
	21	.		215	60					
Nov	7	.		223	17					
	27	.		233	62					
June	26	.		273	74					
					866.62					866.62
1902	Apr	1	By Balance		866.62	1903	Jan	30	By Bad L L 104	866.92
June	13	.	Bad	22	31					866.92
					866.92					

Blowers

May	31	By Capt's Charge	124	270.40	1976	31	By Capt's Charge	1776.71
May	1	band	27.4	10.39				
	24		79.4	20.21				
June	7		77.4	35.12				
	13		79.4	72.93				
	21	Off. P. O. M.	16.4	39.12				
		band	94.4	2.25				
	22		75.4	46.77				
	29		77.4	20.53				
July	6		79.4	42.45				
	12		101.4	79.96				
	13		103.4	47.75				
	20		103.4	16.78				
	25		105.4	24.65				
	31		107.4	37.40				
Aug	8		109.4	291.55				
	9		111.4	51.46				
	17		113.4	26.92				
	22		115.4	14.90				
	31		117.4	5.25				
Sept	6		119.4	6.29				
	12		123.4	11.86				
	14		115					
	20		124	247.47				
	26		133.4	74.0				
	28			5.2				
	29			9.17				
	30		135.4	6.53				
	31		137.4	165.57				
	32		139.4	6.66				
	33			4.52				
Oct	10		145.4	155.64				
	12			4.76				
	14			5.42				
	15			7.14				
	16		147.4	4.50				
	17		152.4	6.07				
	18		154.4	70.64				
	19		156.4	6.47				
	20			5.42				
	21		163.4	17.82				
	22		171.4	13.09				
	23			3.54				
	24			10.44				
	25		173.4	10.46				
	26			1776.71				

1776.71

Blowers

May	1	By Capt's Charge	250	1776.71	1976	31	By Capt's Charge	1776.71
May	4	band	175.4	5.25				
	20		177.4	17.47				
	21			6.47				
	22			17.82				
June	9		174.4	17.82				
July	11			2.43				
	11		175.4	27.77				
	25		201.4	10.47				
	31			1.35				
Aug	7		204.4	17.45				
	21		224.4	5.63				
			325.4	12.61				
			1776.71					
Sept	1	By Capt's Charge	1776.71		1976	31	By Capt's Charge	1776.71
			1776.71					

Coal Landing

1970	12	3	bar	1051	4126	1970	25	2 of 2nd floor	205	2434.66
12	13	.	.	.	1672					
		.	.	.	109.66					
		.	.	.	44					
	20	.	.	1051	121.11					
	26	.	.	1074	1406					
	31	.	.	1091	5577					
		.	.	.	39256					
		.	.	.	2569					
Aug	2	.	.	1131	511.5					
	5	.	.	.	3445					
	9	.	.	1151	2053					
	17	.	.	.	8067					
		.	.	1171	1157					
		.	.	.	3320					
	22	.	.	1191	90					
	24	.	.	.	3304					
		.	.	1211	764					
		.	.	.	549					
		.	.	1231	7371					
	31	.	.	.	4372					
		.	.	1251	301					
		.	.	.	144					
		.	.	.	534					
		.	.	1271	710					
		.	.	.	525					
		.	.	.	1531					
		.	.	.	2250					
		.	.	1291	4250					
		.	.	.	4049					
		.	.	1311	3454					
Apr	6	.	.	.	31065					
	12	.	.	1331	3572					
		.	.	.	4301					
		.	.	.	700					
		.	.	.	2421					
		.	.	1351	34347					
	14	.	.	.	2424					
	20	.	.	1371	74114					
	25	.	.	.	514					
		.	.	1391	240					
		.	.	.	2711					
	26	.	.	.	4030					
		.	.	.	5510					
		.	.	.	2441.66					2434.66

Coal Landing

1970	25	2	Com. floor	222254.66	1970	25	2	Com. floor	222254.66
12	13	.	bar	129	870				
		.	.	.	15500				
	29	.	.	1411	2919.5				
Oct	4	.	.	1431	317829				
		.	.	.	1174				
	10	.	.	1451	3790				
		.	.	.	4156				
	12	.	.	1471	15640				
		.	.	.	12765				
		.	.	.	765				
	13	.	.	1491	2472				
		.	.	1511	177				
	16	.	.	.	2747				
		.	.	.	20332				
	19	.	.	.	2955				
	20	.	.	1531	3342				
		.	.	.	1074				
		.	.	.	101				
		.	.	.	2104				
		.	.	.	369				
		.	.	.	100				
		.	.	.	309				
		.	.	.	44				
	24	.	.	1551	7450.5				
	29	.	.	.	128				
		.	.	.	1228				
		.	.	.	1764				
		.	.	.	337				
		.	.	.	372				
		.	.	.	1140				
		.	.	.	670				
	30	.	.	1571	2514				
		.	.	.	3504				
		.	.	.	13647				
Nov	5	.	Com. floor	222254.66	4451.13				
		.	bar	1611	740				
		.	.	1631	1719				
		.	.	.	300				
		.	.	.	174				
		.	.	.	1669				
		.	.	.	25000				
	6	.	.	.	2044				
	7	.	.	.	2415				
		.	.	.	5190.12				5190.12

Coal Grinding

1900	7	20	Ans for	181	10	by Ans for	181	45
			head	1051				

bow grinding

9th Jun	10	2	Amst. food	1181	1	of the Wilson	404	17206
			band	1934	1561	thru	244	11707 50
					253			
					2010			
				1954	500			
					195			
	11				9694			
	10				720			
	16				10564			
					7401			
	7				110			
	23			199	4439			
	25			2011	91094			
	26				1650			
					728			
	30			2031	735			
	31				944			
					5240			
thg	6			2071	13423 05			
					767			
					1599			
					6618			
				2091	25			
					961			
				2111	3802			
	15			2131	450			
					450			
					4468			
	19			2151	1082			
					74			
	21				3299			
					4523			
					10754 23			
	26				374			
	28			2171	47			
					825			
	6			2211	1078434			
					4493			
	7			2231	1512			
					95115			
	16			2271	416			
					331			
	21			2291	5002			
					9313			
	22			2311	465			
					1010			
				1195902				

Stone

1900	27	2. Pay due	22.4	277.11	1900	27	2. Pay due	77.4	512
Aug	1	"	23.1	374.65	Aug	31	3. Balance	3596.95	
	17	"	"	7.13					
	22	Pay due	24.1	253.99					
Oct	1	"	"	375.21					
	20	"	25.1	1.63					
	23	Pay due	"	309.00					
Nov	1	"	26.1	307.64					
	14	"	27.1	1.67					
	20	Pay due	27.1	74.55					
Dec	6	Pay due	29.1	22.62					
	10	"	"	19					
	22	Pay due	31.1	24.54					
1901	12	"	35.1	31.35					
Jan	21	"	39.1	14.64					
Feb	1	"	40.1	69.65					
	25	"	44.1	19.67					
Mar	1	"	45.1	10.62					
	23	"	"	256.05					
April	2	bal	247.1	1.67					
	1	Pay due	46.1	177.76					
	23	"	47.1	113.75					
May	9	"	48.1	7.50					
	24	"	49.1	9.20					
June	1	"	50.1	24.52					
	24	"	51.1	9.66					
July	7	Pay due	52.1	21.01					
	16	"	53.1	16.20					
Aug	11	"	55.1	14.67					
	23	"	59.1	97.22					
Dec	9	Pay due	70.1	27.34					
1902	21	"	71.1	53.56					
Jan	11	"	74.1	69.50					
	23	"	77.1	91.44					
Feb	1	"	78.1	107.36					
	24	"	81.1	75.14					
Mar	1	"	"	54.45					
	24	"	83.1	64.44					
				3282.83					3602.07

Stone

1901	1	2. Balance	22.4	5596.95	1901	12	2. bal	55.1	17.89
April	10	Pay due	26.1	157.54	Jan	30	bal 22	46.1	37.44
	25	"	27.1	47.24					
				3501.41					3501.41
				374.72					

622 107 315.00 2.15
 144 107 315.00 2.15
 107 107 315.00 2.15

107 107 315.00 2.15

The (Island) Building Supply Co. Charleston

May 2	2	2	151.4	315.00
May 3	9		8	105.00
May 4	10		8	307.45
May 5	11		8	173.25
May 6	13		8	294.00
May 7	20		154	262.50
May 8	15		153	278.00
May 9	1		8	401.10
May 10	30		156	315.00
May 11	31		3	252.00
May 12	1		137	371.70
May 13	2			376.00
May 14	3			409.50
May 15	4			315.00
May 16	11	Business	154	401.10
May 17	10	Business		157.50
May 18	1		139	157.50
May 19	2		144	315.00
May 20	29		1	315.00
May 21	30		142	367.50
May 22	1		1	262.50
May 23	2			315.00
May 24	13			157.50
May 25	15			472.50
May 26	1			105.00
May 27	20			472.50
May 28	1			157.50
May 29	1			157.50
May 30	24			157.50
May 31	29		2	717.50
May 32	29		2	717.50
May 33	29		2	717.50
May 34	29		2	717.50
May 35	29		2	717.50
May 36	29		2	717.50
May 37	29		2	717.50
May 38	29		2	717.50
May 39	29		2	717.50
May 40	29		2	717.50
May 41	29		2	717.50
May 42	29		2	717.50
May 43	29		2	717.50
May 44	29		2	717.50
May 45	29		2	717.50
May 46	29		2	717.50
May 47	29		2	717.50
May 48	29		2	717.50
May 49	29		2	717.50
May 50	29		2	717.50
May 51	29		2	717.50
May 52	29		2	717.50
May 53	29		2	717.50
May 54	29		2	717.50
May 55	29		2	717.50
May 56	29		2	717.50
May 57	29		2	717.50
May 58	29		2	717.50
May 59	29		2	717.50
May 60	29		2	717.50
May 61	29		2	717.50
May 62	29		2	717.50
May 63	29		2	717.50
May 64	29		2	717.50
May 65	29		2	717.50
May 66	29		2	717.50
May 67	29		2	717.50
May 68	29		2	717.50
May 69	29		2	717.50
May 70	29		2	717.50
May 71	29		2	717.50
May 72	29		2	717.50
May 73	29		2	717.50
May 74	29		2	717.50
May 75	29		2	717.50
May 76	29		2	717.50
May 77	29		2	717.50
May 78	29		2	717.50
May 79	29		2	717.50
May 80	29		2	717.50
May 81	29		2	717.50
May 82	29		2	717.50
May 83	29		2	717.50
May 84	29		2	717.50
May 85	29		2	717.50
May 86	29		2	717.50
May 87	29		2	717.50
May 88	29		2	717.50
May 89	29		2	717.50
May 90	29		2	717.50
May 91	29		2	717.50
May 92	29		2	717.50
May 93	29		2	717.50
May 94	29		2	717.50
May 95	29		2	717.50
May 96	29		2	717.50
May 97	29		2	717.50
May 98	29		2	717.50
May 99	29		2	717.50
May 100	29		2	717.50

May 16	16	16	315.00
May 17	17	17	315.00
May 18	18	18	315.00
May 19	19	19	315.00
May 20	20	20	315.00
May 21	21	21	315.00
May 22	22	22	315.00
May 23	23	23	315.00
May 24	24	24	315.00
May 25	25	25	315.00
May 26	26	26	315.00
May 27	27	27	315.00
May 28	28	28	315.00
May 29	29	29	315.00
May 30	30	30	315.00
May 31	31	31	315.00
May 32	32	32	315.00
May 33	33	33	315.00
May 34	34	34	315.00
May 35	35	35	315.00
May 36	36	36	315.00
May 37	37	37	315.00
May 38	38	38	315.00
May 39	39	39	315.00
May 40	40	40	315.00
May 41	41	41	315.00
May 42	42	42	315.00
May 43	43	43	315.00
May 44	44	44	315.00
May 45	45	45	315.00
May 46	46	46	315.00
May 47	47	47	315.00
May 48	48	48	315.00
May 49	49	49	315.00
May 50	50	50	315.00
May 51	51	51	315.00
May 52	52	52	315.00
May 53	53	53	315.00
May 54	54	54	315.00
May 55	55	55	315.00
May 56	56	56	315.00
May 57	57	57	315.00
May 58	58	58	315.00
May 59	59	59	315.00
May 60	60	60	315.00
May 61	61	61	315.00
May 62	62	62	315.00
May 63	63	63	315.00
May 64	64	64	315.00
May 65	65	65	315.00
May 66	66	66	315.00
May 67	67	67	315.00
May 68	68	68	315.00
May 69	69	69	315.00
May 70	70	70	315.00
May 71	71	71	315.00
May 72	72	72	315.00
May 73	73	73	315.00
May 74	74	74	315.00
May 75	75	75	315.00
May 76	76	76	315.00
May 77	77	77	315.00
May 78	78	78	315.00
May 79	79	79	315.00
May 80	80	80	315.00
May 81	81	81	315.00
May 82	82	82	315.00
May 83	83	83	315.00
May 84	84	84	315.00
May 85	85	85	315.00
May 86	86	86	315.00
May 87	87	87	315.00
May 88	88	88	315.00
May 89	89	89	315.00
May 90	90	90	315.00
May 91	91	91	315.00
May 92	92	92	315.00
May 93	93	93	315.00
May 94	94	94	315.00
May 95	95	95	315.00
May 96	96	96	315.00
May 97	97	97	315.00
May 98	98	98	315.00
May 99	99	99	315.00
May 100	100	100	315.00

Shore Storm

12 th 12 th 2 nd Balmain	77	4354.41	1890 17 th 1 st 1 st Sandrine	28	1049.53
" " " Sand	155	1199	18 th 12 th 1 st (Penne)	21	5304.05
" " " "	"	127.02			
" " " "	"	15.12			
" " " "	"	12.04			
" " " "	"	4.36			
" " " "	"	182.55			
" " " "	"	29.47			
14 th " " " "	24	64.50			
22 nd " " " "	177	1939			
25 th " " " "	"	22.73			
" " " "	"	42.12			
" " " "	"	3.44			
" " " "	"	46.11			
" " " "	"	57.5			
" " " "	109	344.51			
27 th " " " "	"	45.4			
" " " "	"	19.4			
29 th " " " "	141	75.41			
" " " "	"	3.92			
" " " "	"	4.64			
1 st 4 th " " " "	142	22.60			
" " " "	"	9.51			
" " " "	"	10.42			
" " " "	"	109.64			
" " " "	"	307.84			
" " " "	"	9.45			
5 th " " " "	44	79.45			
10 th " " " "	145	45			
12 th " " " "	"	21.34			
" " " "	"	2.47			
" " " "	"	12.65			
" " " "	"	175.03			
" " " "	"	91.53			
" " " "	147	14.00			
" " " "	"	10.96			
" " " "	"	13.62			
" " " "	"	75.49			
" " " "	"	13.36			
" " " "	"	4.47			
149 th " " " "	"	55.46			
" " " "	"	1.25			
" " " "	"	2.7			
" " " "	"	15.54			
		6553.54			6553.54

Shore Storm

12 th 12 th 2 nd Balmain	240	5804.05	1890 20 th 1 st 1 st Sandrine	25	1393.13
" " " Sand	149	2.07	18 th 5 th 1 st (Penne)	21	1443.4
" " " "	"	30.51		240	612.196
" " " "	"	4.29			
" " " "	"	10.64			
" " " "	157	49.69			
" " " "	"	120.42			
" " " "	"	6.37			
" " " "	"	1.12			
16 th " " " "	"	5.44			
19 th " " " "	153	25			
" " " "	"	163.55			
" " " "	"	70.56			
" " " "	"	102.90			
" " " "	"	124.75			
" " " "	"	109.4			
" " " "	"	39.70			
" " " "	"	150.6			
" " " "	"	25.41			
" " " "	"	94.66			
" " " "	"	6.97			
" " " "	"	6.33			
" " " "	155	5.18			
" " " "	"	14.75			
23 rd " " " "	25	126.52			
24 th " " " "	155	297.32			
29 th " " " "	"	6.110			
" " " "	"	1.52			
" " " "	157	32.69			
" " " "	"	131.67			
" " " "	"	13.67			
" " " "	"	17.03			
" " " "	"	63.49			
" " " "	"	2.79			
" " " "	"	4.65			
" " " "	"	9.50			
" " " "	"	22.64			
" " " "	"	6.71			
" " " "	"	6.12			
30 th " " " "	159	22.51			
" " " "	"	3.40			
" " " "	"	3.40			
31 st " " " "	161	75.274			
" " " "	"	56			
		7529.48			7529.48

Stone Norm

1952	5	3	Base	241	612	96	1952	14	By	Standard	27	1505	90
			Base	161	1274			12	By	Standard	293	6029	15
					902								
					532								
					427								
					779								
					485								
					704								
				103	589								
					536								
6					21230								
					200								
7				165	1027								
					1071								
					4931								
					420								
					5894								
					1372								
					526								
					1044								
					1080								
					1041								
					4251								
8			By	26	15294								
			Base	167	1565								
					1884								
					113								
					5246								
					5771								
					5600								
17					7311								
					3183								
					5054								
				169	160								
					1144								
					2065								
					5442								
					270								
					108								
					2441								
					42140								
20			By	27	14591								
22			Base	169	175366								
					3101								
					705575								

705575

Stone Norm

1952	22	3	Base	6029	15	1952	10	By	Standard	29	2089	75
			Base	149	637				Base	294	4756	05
					671							
					4290							
					416							
				171	1549							
					645							
					1794							
					711							
				74	572							
				50	655							
Den	1			175	61515							
					5664							
					1015							
					386							
					834							
					2049							
					895							
					31545							
					9771							
6			By	29	1446							
10			Base	175	7159							
					986							
					539							
					3480							
					2446							
				177	1166							
					953							
					2535							
					250							
					1542							
					947							
					2425							
					347							
					414							
					800							
					2007							
					2524							
18				179	3145							
					6394							
					454							
					779							
					265							
					1452							
					720574							

720574

Store Record

1901	24	By Balance	6423 59	1901	6	By Balance	4407 12
Jan		bank	1991 31 54				
			3 06				
			9 29				
			29 64				
			18 06				
			25 29				
			8 43				
			6 05				
26			159 46				
			17 41				
			4 05				
			10 16				
			4 40				
			20 11 25 06				
			43 34				
			46 34				
			123 62				
			16 05				
			22 09				
28			2081 70 70				
			5 77				
			11 07				
			5 62				
			23 67				
			30 13				
			5 59				
			85 62				
			95 01				
			2 03				
28			126 06				
			44 25				
			22 05				
			7 01				
			4 07				
			4 06				
			37 24				
			53 25				
			12 60				
			24 09				
			3 60				
			37 40				
			18 70				
			4 70				
			4407 12				

Store Record

1901	6	3	Account for	446 54 07 12	1901	1	By Balance	40 1	1 04
Feb			bank	2091 24 04		12	By Balance	41 1	29 07 04
				50		25	By Balance	43 1	27 16 50
			By Balance	40 1 10 24 7		25	By Balance	43 1	27 16 50
			bank	2114 13 25		25	By Balance	43 1	27 16 50
				13 69				44 1	27 16 50
				3 24				44 1	27 16 50
				4 97				44 1	27 16 50
				1 60				44 1	27 16 50
				25				44 1	27 16 50
				5 79				44 1	27 16 50
				1 24				44 1	27 16 50
				146 46				44 1	27 16 50
				2131 3 06				44 1	27 16 50
				59 34				44 1	27 16 50
				46 26				44 1	27 16 50
				11 76				44 1	27 16 50
				23 9				44 1	27 16 50
				71 54				44 1	27 16 50
				24 99				44 1	27 16 50
				59 60				44 1	27 16 50
				4 37				44 1	27 16 50
				15 50				44 1	27 16 50
				71 26				44 1	27 16 50
				45 1				44 1	27 16 50
				44 1				44 1	27 16 50
				2159 72 15				44 1	27 16 50
				17 29				44 1	27 16 50
				2171 10 24				44 1	27 16 50
				14 20				44 1	27 16 50
				1 33 52				44 1	27 16 50
				24 05				44 1	27 16 50
				0 75				44 1	27 16 50
				23 20				44 1	27 16 50
				49 64				44 1	27 16 50
				2 60				44 1	27 16 50
				5 02				44 1	27 16 50
				1 64				44 1	27 16 50
				50				44 1	27 16 50
				2 66				44 1	27 16 50
				3 76				44 1	27 16 50
				12 03				44 1	27 16 50
				20 02				44 1	27 16 50
				10 24 50				44 1	27 16 50

Gardes & Railways

1900	25	By Am. f. d.	69,583.27	1900	6	By Bank	744	122
		Bank	1471 21.13		10	By Balance	157	72676.09
			24 459.00					
			76.22					
			34.50					
28			1491 52.00					
			1411.2227 10					
			81.000 00					
			9.70					
			93.027 00					
Oct 4			1431 111.00					
			141.12					
	By Am. f. d.		241 463.00					
12	Bank		1471 9.00					
			1491 59.64					
15			143 79					
19			151 25					
20			153 67.45					
			2.01					
			50					
	Am. f. d.		251 104.42					
23	By Am. f. d.		151 543					
29	Bank		1571 51.16					
30			1591 7.50					
Nov 5			1611 55.76					
			520					
			124.36					
			1.35					
6			163 2.50					
7			165 4.92					
			123					
			29.65					
11	By Am. f. d.		261 112.15					
	Bank		1571 51.10					
14	Am. f. d.		271 105.49					
17	Bank		1571 69.34					
20	By Am. f. d.		271 96.532					
22	Bank		1591 40.10					
27			711 51.02					
30			731 2.57					
Dec 6	By Am. f. d.		291 99.12					
10	Am. f. d.		291 113.52					
	Bank		771 11.90					
			35.72					
			72677.341					
			72677.31					

Gardes & Railways

1900	10	By Balance	250 72676.09	1900	1	By Am. f. d.	441 1.00
	15	Bank	1791 124.14		15		451 1.00
	15		171 29.41		17	By Balance	250 72676.09
	21		153 54.32				
	22	By Am. f. d.	331 99.51				
	24	Bank	151 10.62				
	25		12.00				
1901	7		1591 27.62				
1901	7		243.06.15				
	9		191 50.51				
	10		191 6.73				
	12	By Am. f. d.	351 464.45				
	17	Bank	197 5000.00				
	18		17.65				
	19	Am. f. d.	351 165.16				
	21	By Am. f. d.	391 403.07				
	23	Bank	1971 15.40				
	26		201 71.79				
	30		2031 10.20				
	31		96				
1901	6		2071 49.50				
			65.00				
			2091 71.26				
	11	By Am. f. d.	401 344.76				
		Bank	2091 12.64				
	12	Am. f. d.	411 159.01				
	14	Bank	211 15.51				
	25	By Am. f. d.	411 276.09				
	26	Bank	2171 21.15				
1902	5		221 25.54				
	6		224 18.15				
			17.50				
	7	Am. f. d.	441 53.62				
	11	By Am. f. d.	451 244.00				
	21	Bank	2271 5.00				
			2291 0.20				
	23	By Am. f. d.	451 309.51				
	27	Bank	231 24.60				
			231 24.60				
1902	2		2371 25.12.51				
	5		56.07				
	11	By Am. f. d.	461 402.00				
	10	Am. f. d.	471 61.02				
	12	Bank	4791 6.71				
	17		241 52.00				
			4720.56				

Gardes & Railways

1901	17	2	Batman	251	5499.00	1901	9	2	Bay Area	144	7.05
19			bad	241	2500	1901	6	2	Bay Area	52	4.20
20			Bay Area	174	231.35	1901	24			53	3.45
26			bad	243	60.04	1901	12		Batman	253	9000.72
29				247	6.50						
					7.55						
May	9		Bay Area	441	367.93						
	10		bad	255	3.26						
	11		Shurman	494	26.91						
			bad	257	5.20						
	17			259	6.465						
	24		Bay Area	494	579.72						
	27		bad	261	4.75						
June	1			265	1.95						
	7		Bay Area	50	244.43						
	12		Shurman	51	114.40						
	17		bad	269	7.65						
	24		Bay Area	51	293.20						
	26		bad	275	13.425						
	27				2.50						
July	6		Bay Area	62	449.07						
	9		Shurman	53	44.59						
	11		bad	271	5.15						
	12				26.24						
	24		Bay Area	53	531.44						
	31		bad	283	6.50						
Aug	1		Bay Area	54	1230.07						
			Shurman		40.10						
	2		bad	274	13.04						
	3			279	126.49						
	6			291	41.26						
	9			293	5.00						
	12			295	19.59						
	16			297	14.66						
	16			297	79.10						
	21				5.25						
	23		Bay Area	57	709.34						
	24		bad	303	59.25						
	30			307	65.79						
					57.62						
Sept	6			309	11.00						
	7		Bay Area	54	500.47						
	10		Shurman	59	23.77						
	12		bad	311	3.64						
					8903.44						

Gardes & Railways

1901	12	2	Batman	252	9001.972	1901	16	2	Bay Area	59	24.34
20			bad	313	5.25	1901	23			62	4.20
16			Bay Area	59	543.66	1901	23			62	2.55
24			bad	313	22.20	1901	31		Shurman	32	3.50
26				315	100.96	1901	11		Bay Area	65	46.65
					54.93	1901	24			69	3.76
					23.878	1901	21			72	5.92
Aug	10		Shurman	62	50.72	1901	10			74	5.15
	12		Bay Area	63	55.15	1901	14		Batman	254	954.19
	21		bad	325	24.61						
					11.75						
	23		Bay Area	63	514.25						
	29		bad	327	6.73						
Am	1			329	92.06.10						
					2.75						
	6				113.42						
					5.45						
	7				49.49						
	11		Bay Area	65	450.67						
	12		Shurman	66	71.64						
	14		bad	327	94.27						
				329	67.50						
					27.81						
	16				2.00						
	22				9.90						
	23		Bay Area	69	520.44						
	27		bad	345	8.09						
					2.65						
	30				5.30						
Dec	5				6.65						
	9		Bay Area	70	342.32						
	11		Shurman	71	55.71						
			bad	350	68.70						
					49.12						
	21		Bay Area	71	407.75						
	23		bad	371	1.50						
1902	3				76.44						
Jan					154.40						
					2.75						
	6				7.92						
					50.72						
					32.15						
	10		Bay Area	74	649.41						
	14		bad	377	46.32						
				379	44.50						
					9540.99						

Yards & Railways

1902 July	14	By Balance	150 854 19.13	1902 Aug 31	By Balance	944 55 01
		Carb	509 14 97			
			40 60			
	15	Shut down	764 73 03			
	22	Carb	5714 15 54			
			5734 16 19			
	23	By Carb	77 453 62			
	24	Carb	573 19 14			
	29		79 56			
			575 25 00			
26			577 16 27			
			579 39 11			
			26 75			
			504 10 56			
7		By Carb	74 330 62			
12		Shut down	79 706 70			
14		Carb	504 32 69			
			500 7			
24		By Carb	41 334 14			
27		Carb	543 79 6			
30			504 43 7			
7		By Carb	507 13 64			
12		Shut down	41 211 93			
15		Carb	424 45 90			
24		By Carb	574 524			
25		By Carb	43 411 21			
26		By Carb	44 25 53			
27		Carb	509 2 10			
			594 67 42			
28			593 74 34			
1902 Aug	1	By Balance	944 55 01	1902 Aug 12	By Carb	455 100 66 94
	2	Carb	1 77 96			
	3		2 79 21			
	7		2 64 96			
			3 104 26			
			60 19			
			20 10			
			71 26			
	9		5 142 44			
			42 05			
			27 00			
	10	By Carb	16 514 13			
	12	Carb	9 91 26			
			100 66 94			

Yards & Railways

1902 Aug	12	By Carb	254 100 66 94	1902 Aug 30	By Carb	20 112 00
	1	Shut down	14 54 36	June 10	By Carb	94 15 50
	21	Carb	122 10 44	June 12	By Carb	152 107 14 49
	24		13 16 44			
	25	By Carb	74 443 44			
	26	Shut down	14 54 36			
	27	Carb	14 46 19			
	28		59 22			
Aug 7			152 57 42			
	9	By Carb	404 361 59			
	10	Shut down	14 54 36			
	24	Carb	20 26 24			
	27	By Carb	71 356 59			
	29	Carb	20 43 51			
June 7			21 8 61			
	10	By Carb	94 325 44			
	12	Shut down	95 132 61			
	18	Carb	22 140			
	25		22 99			
		By Carb	94 360 33			
	27	Carb	24 54			
	28		25 19 95			
July 1		By Carb	77 338 27			
	10	Shut down	94 62 03			
		Carb	26 171			
	23	By Carb	79 244 31			
	25	Carb	30 146 55			
			71			
Aug 5			33 149 13 53			
			15 00			
	9	By Carb	144 315 49			
	11	Shut down	102 31 59			
	25	By Carb	103 273 54			
	26	Carb	35 22			
	27		94 5			
			36 39 15			
Aug 5		By Carb	143 53 10			
		Carb	34 57 4			
	10	Shut down	106 229 77			
	20	By Carb	17 346 04			
Aug 4		Carb	42 30 24			
		By Carb	109 344 94			
	11	Shut down	110 117 73			
	22	By Carb	114 372 5			
			107 307 49			

Equipment & Maintenance

1900	1900	1900	1900
Car	12 3/4 Amel. feed	154	540
	" " bark	145	30 54
	" " "	" "	16 25
	" " "	147	53 30
	" " "	" "	12 30
	" " "	" "	70
	" " "	149	477
	" " "	" "	442
	" " "	" "	7299
	19 "	154	225
	29 "	" "	140
	20 "	153	3500
	" " " " " "	254	5945
	23 " Bay (fuel)	" "	340 54
	24 " bark	155	435
	29 "	157	29 22
	" " "	" "	287 60
	30 "	159	335
	" " "	" "	25
Nov	5 "	161	125 70
	" " "	" "	640
	" " "	" "	139
	6 "	163	65
	7 "	165	1603
	" " Bay (fuel)	26	43204
	" " bark	167	140
	14 " " " " "	27	251 36
	17 " bark	169	4466
	" " "	169	610
	20 " Bay (fuel)	27	325 61
	22 " bark	169	154
Dec	6 " Bay (fuel)	29	336 77
	10 " " " " "	" "	409 45
	15 " bark	179	6204
	" " "	" "	2202
	" " "	" "	4000
	17 "	181	1477
	21 "	183	17161
	22 " Bay (fuel)	33	45194
	24 " bark	185	400
	7 "	179	154 50
	9 "	194	25 27
	12 " Bay (fuel)	33	577 56
	7 " bark	195	519
			31627 45
			31627 45

Equipment & Maintenance)

1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	23
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Equipment & Maintenance)

1901	1901	1901	1901
Apr 29	2, Amy feed	35.53	56.30
30	1, Bob	2.71	27.00
1	"	2.71	12.50
"	"	"	4.67
"	"	"	12.50
"	"	"	90
May 1	"	253	3.60
"	"	"	15.00
9	1, Amy feed	45	55.74
11	1, Bob	255	7.41
11	1, Amy feed	49	2.12.50
"	1, Bob	2.71	7.50
17	"	259	36
"	"	"	4.55
24	1, Amy feed	49	57.53
27	1, Bob	261	9.40
June 5	"	265	25
6	1, Amy feed	"	195
12	1, Amy feed	50	40.11.4
12	1, Amy feed	51	133.21
17	1, Bob	269	10.65
19	"	271	13
20	"	"	1.27
24	1, Amy feed	51	3.43.24
25	1, Bob	273	27.27.26
"	"	475	47
27	"	"	2.75
1	"	277	4.44.60
6	1, Amy feed	52	2.44.02
9	1, Amy feed	53	2.59.69
10	1, Bob	277	12
"	"	277.4	350.00
"	"	"	5.55
24	1, Amy feed	54	2.39.46
25	1, Bob	285	2.57
Aug 1	1, Amy feed	54	3.44.79
"	1, Amy feed	"	207.17
2	1, Bob	287	30
"	"	"	7.65
"	"	"	2.64
"	"	"	4.32
3	"	289	75
7	"	291	4.50
9	"	293	570
			39105.22

Equipment & Maintenance)

1911	Aug	9	By Balance	122	3912.22	1911	Aug	14	By Cash paid	214	41962.09
		12	Bank	235	6.50						
		16	"	"	349						
		21	"	"	457						
		22	"	"	615						
		23	By Cash	59	336.65						
		24	Bank	50	10.50						
		25	"	503	76.36						
		1	"	505	1.30						
		5	"	"	1147						
		5	"	507	2.70						
		6	"	509	6.00						
		7	By Cash	524	385.07						
		10	Provisions	59	144.84						
		12	Bank	511	101.01						
		20	"	"	50						
		20	"	513	1.30						
		16	By Cash	59	206.97						
		26	Bank	515	10.56						
		1	"	"	122						
		1	"	"	361						
		1	"	517	2.00						
		1	"	"	267.19						
		1	"	"	722.0						
		2	"	514	2.63						
		2	"	"	405.15						
		3	"	523	17.00						
		1	"	"	116.4						
		1	"	"	22.0						
		10	Cash on hand	624	70.50						
		12	By Cash	63	294.13						
		21	Bank	525	2.5						
		1	"	527	11.50						
		23	By Cash	63	299.69						
		29	Bank	529	2.23						
		1	"	529	17.65						
		1	"	531	51.65						
		6	"	533	7.20						
		7	"	535	10.65						
		11	By Cash	65	523.63						
		12	Cash on hand	66	97.25						
		14	Bank	537	2.23						
		1	"	539	5.92						
					4992.09						

Equipment & Maintenance

1901	14	3	Amg form	26341902	1902	17	3	Amg form	25545965
15			bar	344	4043				
22				343	990				
23			Amg form	69	31315				
27			bar	343	540				
					245.50				
				345	1118799				
1902	4			349	5520				
					297				
5				351	443				
9			Amg form	70	327.54				
11			bar	714	7194				
				353	50				
					3.50				
13				355	115				
21			Amg form	71	367.56				
23			bar	357	64				
1902					26.29				
3				361	546				
				363	23.15				
					50.59				
					2.67				
6				365	990				
			22.00	73	1200				
8			bar	365	2777				
10			Amg form	74	454.24				
14			bar	369	43.24				
					4.47				
15			Amg form	76	24.64				
22			bar	371	19.84				
				373	5.64				
23			Amg form	77	349.01				
25			bar	375	7.65				
29					49				
1902				377	478.75				
					5.75				
3					15.00				
				379	10.16				
7					2.15				
				341	13.20				
11			Amg form	74	460.46				
12			bar	79	21796				
15				341	57				
24			Amg form	71	429.53				
27			bar	343	5710.52				
					4596.64				

4196.64

Equipment & Maintenance

1901	27	3	Amg form	25445965	1902	31	3	Amg form	4705962
Feb	3		bar	355	76				
Mar	7			357	1500				
					130				
					9.50				
	11		Amg form	71	392.50				
	12		bar	12	123.06				
	15		bar	357	97				
				359	792				
	24		Amg form	33	493.33				
	27		bar	359	500				
					6.25				
	29		Amg form	44	27.00				
	31		bar	393	2.35				
				4705962					
Apr	1	3	Amg form	4705962	31	3	Amg form	4705962	
	2		bar	1	26.91				
				2	792				
				2	47				
				2	235				
	7			3	10.04				
	8			4	474				
					210				
					1500				
	9			5	16.24				
	10		Amg form	44	405.54				
			bar	6	951				
					115				
					6.00				
					290				
				7	4.05				
					660				
					1535				
	12				1460				
					9.09				
				9	14.50				
			Amg form	71	1977				
	17		bar	10	12.04				
					12000				
					500				
	21				593.41				
				11	344				
					600				
				12	60				
				4446.90					

4446.90

Equipment & Maintenance

1941	21	3	Amey bed	255	44	10.99	1941	25	3	Amey bed	90	175
	24		bed	12	4.66		26	1	3	Amey bed	257	2157.570
				12	10.48							
					95							
	25		Amey bed	27	412.41							
	26		bed	13	2.30							
			off bed	14	16.49							
	27		bed	16	32							
				15	47.5							
Aug	7			16	4.00							
	9		Amey bed	90	431.34							
	10		Amey bed		95.91							
	7		bed	15	51.22							
	21			16	24							
				17	1.60							
					30							
					32.49							
				18	2.46							
	22				2.48							
					4.00							
				19	76							
	24				26.67							
	27		Amey bed	91	49.135							
	29		bed	20	25							
					50.00							
					9.69							
Jan	7			21	47.48							
					4.41							
	10		Amey bed	94	472.44							
	12		Amey bed	95	121.76							
	13		bed	22	4.00							
	20		off bed	95	65.37							
	25		bed	22	1.05							
			Amey bed	96	574.22							
	27		bed	23	120							
					90.02							
				24	730							
					49							
					192							
					75							
					560							
					22.44							
					320							
Feb	1		Amey bed	97	536.50							
					575.97.45							

57597.45

Equipment & Maintenance

1941	1	3	Amey bed	26	578.570	1941	2	3	Amey bed	26	578.570
Feb	10		Amey bed	98	77.17						
			bed	26	58.00						
					15.92						
					4.07						
	15			27	12.06						
	22			28	2.94						
	23				50						
				29	1.05						
			Amey bed	99	349.03						
	25		bed	30	16.00						
					6.75						
	29			31	2.00						
					4.24						
					50.00						
					11.79						
				32	7.46						
Aug	9		Amey bed	100	537.72						
	11		Amey bed	102	3.42						
	23		bed	34	6.04						
				35	5.10						
					2.52						
	25		Amey bed	103	371.57						
	26		bed	35	157.62						
	27			36	16.31						
					11.93						
	30				22.50						
				37	4.05						
Oct	1		Amey bed	105	426.73						
			bed	38	7.92						
					2.95						
	18		Amey bed	106	39.45						
	16		bed	39	77.16						
	19				62.00						
				40	1.35						
					51						
				41	10.54						
					5.01						
					5.66						
					1.23						
					7.03						
	20		Amey bed	107	370.09						
Nov	2		bed	42	54.15						
	4				7.92						
					395.67.99						

39566.99

Equipment & Maintenance

1902	4	2	Balanced	267 5486.99	1903	11	2	Balanced	269 97547.50
Oct			bal	422 1.44					
				43. 75					
	7			141.00					
				53.8					
				46. 179					
			Pay ch	109.1 304.90					
	11		Shorthand	110. 55.62					
	10		bal	46. 65.74					
				7.57					
				47. 9.56					
	21			11.1 209.90					
	24			49. 153.96					
				46. 12.60					
				9.57					
				49. 4.45					
	27			5.96					
				2.25					
Nov	6			50. 35.77					
			Pay ch	112. 325.57					
	17		Shorthand	113. 104.43					
	20		bal	50. 2.90					
				50. 14.45					
	22		Pay ch	114. 270.19					
	24		bal	51. 60					
				1.55					
	29			52. 273.23					
Dec	5			53. 279.45					
				1.25					
				54. 1.31					
	6			55. 72.01					
	1		Pay ch	116. 263.05					
	10		Shorthand	117. 65.33					
				57.10					
	12		bal	55. 44.94					
				3.90					
				56. 4.11					
				130.1					
	15			57. 6.06					
	19			58. 9.9					
	22			59. 1.4					
	23		Pay ch	120. 274.10					
	30		bal	60. 74.53					
				515.78					
				57547.50					

Equipment & Maintenance

1903	1	2	Balanced	268 97547.50	1903	23	2	Balanced	271 63496.21
Jan			bal	61. 273.10					
				11.80					
				9.90					
	12		Pay ch	124. 221.46					
	14		Shorthand	64.34					
	15		Shorthand	125. 279.64					
			bal	62. 1.50					
	16			63. 34.76					
	21			63. 30.00					
	22			64. 6.57					
	24		Pay ch	126. 19.54					
			bal	64. 124.74					
				74.22					
Feb	7			66. 79.17					
				1.85					
				50.26					
	11			67. 42.54					
				13.20					
	10			69. 1.10					
	11		Pay ch	127. 193.44					
	13		Shorthand	129. 61.25					
	21		bal	69. 20.19					
	24			70. 3.96					
	25			4.85					
				72. 1.20					
	24		Pay ch	129. 174.54					
Mar	14		bal	70. 326.25					
	16		Pay ch	132. 29.27					
	17		bal	74. 24.39					
				3.33.66					
	20		Pay ch	132. 163.47					
			Shorthand	133. 10.24					
	23		Pay ch	134. 27.62					
	26		bal	75. 9.5					
	27			2.36.91					
	31		Shorthand	135. 5.94					
Apr	9		bal	76. 63.06					
	9			2.55					
	11		Pay ch	134. 257.04					
	13		Shorthand	139. 154.41					
	14		bal	77. 3.00					
				70					
	23			79. 72.5					
				80. 6.34					
				63496.21					
				271					

Price Machinery

1890	20	23	Aug. 1890	96	38870.15	1891	20	Aug. 1891	25	220
Aug.	"	"	1890	153.8	75.5	Dec.	"	1891	25	524.6
"	"	"	"	"	75.5	"	"	"	"	"
"	"	"	1890	25	536.74	"	"	"	"	"
23	"	"	Aug. 1890	"	145.10	"	"	"	"	"
24	"	"	1890	153.8	75.460	"	"	"	"	"
"	"	"	"	"	396.75	"	"	"	"	"
29	"	"	"	117.8	1.75	"	"	"	"	"
"	"	"	"	"	206.4	"	"	"	"	"
"	"	"	"	"	49.71	"	"	"	"	"
"	"	"	"	"	55.80	"	"	"	"	"
"	"	"	"	"	47.45	"	"	"	"	"
"	"	"	"	"	60.02	"	"	"	"	"
"	"	"	"	"	8900.05	"	"	"	"	"
30	"	"	"	"	1.40	"	"	"	"	"
"	"	"	"	159.8	65	"	"	"	"	"
Aug.	5	"	"	"	11.25	"	"	"	"	"
"	"	"	"	161.8	2423.07	"	"	"	"	"
"	"	"	"	"	2.4	"	"	"	"	"
"	"	"	"	"	2.500	"	"	"	"	"
"	"	"	"	"	70.76	"	"	"	"	"
"	"	"	"	"	25	"	"	"	"	"
"	"	"	"	113.8	92.04	"	"	"	"	"
6	"	"	"	"	5.45	"	"	"	"	"
7	"	"	"	165.8	5.25	"	"	"	"	"
"	"	"	"	"	2.19	"	"	"	"	"
"	"	"	"	"	25.67	"	"	"	"	"
"	"	"	"	"	32.51	"	"	"	"	"
"	"	"	"	"	97.93	"	"	"	"	"
"	"	"	"	26	185.64-64	"	"	"	"	"
"	"	"	"	147.8	112.76	"	"	"	"	"
"	"	"	"	147.8	45.13	"	"	"	"	"
"	"	"	"	"	4.16	"	"	"	"	"
14	"	"	1890	27	500.27	"	"	"	"	"
7	"	"	1890	147.8	54	"	"	"	"	"
"	"	"	"	169.8	131.72	"	"	"	"	"
"	"	"	"	"	12.625	"	"	"	"	"
"	"	"	"	47.8	416.04	"	"	"	"	"
12	"	"	1890	169.8	12.42	"	"	"	"	"
"	"	"	"	"	43.75	"	"	"	"	"
"	"	"	"	171.8	355.74	"	"	"	"	"
27	"	"	"	"	4.41	"	"	"	"	"
30	"	"	"	173.8	3.75	"	"	"	"	"
1	"	"	"	175.8	21.75	"	"	"	"	"
					7249.35					

Price Machinery

1910 Dec			1910 Dec			1910 Dec
1	By Balance	374 5246 15	6	By Cash	1742	10 40
	Cash	1550 420	22	By Cash	321	2 00
	"	" 169 55	19	By Balance	176 6597	52
	"	" 63 10				
	"	" 34494				
6	By Cash	2912 920 54				
10	By Cash	" 63497				
	Cash	1550 2445				
	"	" 1135				
	"	1771 7042				
	"	" 259				
	"	" 10115				
11	"	" 59076				
15	"	1792 5375				
	"	" 3000				
18	"	1012 701				
	"	" 6571436				
	"	" 22400 00				
21	"	1532 50220				
	"	" 1074				
	"	" 23160				
22	By Cash	332 90143				
24	Cash	10312 409				
25	"	" 1940				
29	"	1052 6746				
31	"	1471 21023				
7	"	1772 1744				
	"	" 1772				
	"	" 51440				
9	"	" 3166				
	"	" 43714				
	"	1412 443				
10	"	1922 662				
	"	1922 216				
	"	" 60				
	"	" 4200				
	"	" 1599				
11	"	1952 65124				
12	By Cash	1542 10446				
16	Cash	1952 250				
17	"	1772 20744				
	"	" 759				
18	"	" 2290				
19	By Cash	342 140 00				
		6461572				

Price Machinery

1901 July	19	2, Bureau	275 45 97 32	201 July	25	by day done	45 on 13 25
	21	by day	37 4 99 4 16		26	Bureau	27 75 91 11
	23	band	197 10 500				
			199 10 15				
			1 27 16				
	24	band	39 2 18 39				
		band	201 4 157 12				
	25		201 4 157 12				
	26		1 6 94				
	30		203 10 23 51				
			1 13 4 14				
	31		1 10 95				
July			107 10 63 00				
	6		1 40 169				
			1 10 162				
			1 3 52				
			1 24				
			209 2 25 00				
			1 27 94				
			1 21 4 24				
			1 3 407				
			1 3 31				
			1 12				
	8	by day	40 12 25 14				
		band	109 2 13 25				
			211 2 12 30				
	12	band	41 2 97 545				
	14	band	211 10 61 01				
			1 12 640				
			1 22 134				
	15		1 12 66				
			1 255				
			1 13 23				
	19		1 50 39				
			215 11 5 63				
			1 17 09				
			1 29 1				
	21		1 195				
			1 3 52				
	25	by day	44 12 1320 95				
	26	band	215 12 20 17				
			27 10 42 76				
			1 6 97				
			1 5 47				
			757 25 69				

7592509

Price Machinery

1901 July	26	2, Bureau	276 59 11 11	1901 Aug	1	by day done	44 10 167
	27	band	27 10 52		23	by day	45 2 160
			27 10 45 00	Apr	5	Bureau	27 66 11 4 11
			1 5 13 59				
Aug	5		22 10 57 64				
			1 57 93				
			1 95 09				
	6		1 202				
			1 39 60				
	7		223 2 17 49				
			1 3 80				
			1 250 63				
	8	band	44 2 320 59				
		band	45 2 103 72				
	9	band	225 2 23 5				
			1 67 11				
			1 14 09				
			1 47 6				
	15		1 19 90				
	16		227 2 27 143				
			1 332				
	21		1 445				
			229 2 36 52				
			1 103 13				
			1 205 73 49				
			1 732 47				
			1 106 72				
			1 30				
	22		1 33 26				
			231 2 159 21				
	23	band	45 2 1767 32				
	27	band	221 10 17 163				
			1 42 65				
			233 2 151 43				
			1 303 40				
	29		1 25 00				
			1 44 03				
	30		1 423 09				
			1 27 64				
			1 43 31				
			1 41 13				
			1 76 14 14				
Apr	2		227 10 31 53				
			1 24 14				
			1 33 00				
	5		1 42 22				
			1 44 136				

20112500

Mile Machinery

1901	5	3	Bureau	277 5474.41	1901	20	By the Bureau	47	22.63
June			bank	279 5775			bank	47	22.63
	6			16.05	1901	7	By the Bureau	47	22.63
				6.33			bank	47	22.63
				22.95			bank	47	22.63
				57.62			bank	47	22.63
8			By the Bureau	46 1924.71			bank	47	22.63
10			bank	557.95			bank	47	22.63
12			bank	239 117.23			bank	47	22.63
				870			bank	47	22.63
17				4116			bank	47	22.63
				2640			bank	47	22.63
				2540			bank	47	22.63
19				2965			bank	47	22.63
23			By the Bureau	17 82214.04			bank	47	22.63
25			bank	243 13.64			bank	47	22.63
26				243 73.10			bank	47	22.63
				357			bank	47	22.63
				18374			bank	47	22.63
				4457			bank	47	22.63
				2456			bank	47	22.63
				60.04			bank	47	22.63
				20.19			bank	47	22.63
29				52.50			bank	47	22.63
				2470 94.47			bank	47	22.63
				2610			bank	47	22.63
				10.97			bank	47	22.63
				191			bank	47	22.63
				279 61.90			bank	47	22.63
				10.40			bank	47	22.63
				23.40			bank	47	22.63
				2452			bank	47	22.63
May	2			233 219			bank	47	22.63
				3235			bank	47	22.63
				14403			bank	47	22.63
				162			bank	47	22.63
				7510			bank	47	22.63
				2115			bank	47	22.63
				15			bank	47	22.63
				107			bank	47	22.63
9			By the Bureau	44 82095.02			bank	47	22.63
10			bank	557 59.07			bank	47	22.63
				76			bank	47	22.63
				2462			bank	47	22.63
				762			bank	47	22.63
				95744.62			bank	47	22.63

9774.02

Mile Machinery

1901	10	3	Bureau	277 94999.94	1901	24	By the Bureau	49	36.5
June			bank	255 326	June	17	By the Bureau	49	36.5
				257 577.44			bank	49	36.5
				295			bank	49	36.5
				295			bank	49	36.5
				27 27.14			bank	49	36.5
				1441			bank	49	36.5
				2209			bank	49	36.5
				259 21.03			bank	49	36.5
				240			bank	49	36.5
				27			bank	49	36.5
				6465			bank	49	36.5
				13500			bank	49	36.5
				521			bank	49	36.5
				33020			bank	49	36.5
				49 2013.14			bank	49	36.5
				261 171			bank	49	36.5
				2524			bank	49	36.5
				5510			bank	49	36.5
				23725			bank	49	36.5
				2475			bank	49	36.5
				2913			bank	49	36.5
				263 20.91			bank	49	36.5
				297			bank	49	36.5
				3249			bank	49	36.5
				3100			bank	49	36.5
				1663			bank	49	36.5
June	5			12160			bank	49	36.5
				265 37.45			bank	49	36.5
				3040			bank	49	36.5
				63.41			bank	49	36.5
				452			bank	49	36.5
				57 2215.90			bank	49	36.5
				57 594.95			bank	49	36.5
				265 33.41			bank	49	36.5
				1122			bank	49	36.5
				969			bank	49	36.5
				2994			bank	49	36.5
				214.59			bank	49	36.5
				40.13			bank	49	36.5
				300			bank	49	36.5
				531			bank	49	36.5
				41			bank	49	36.5
				5452			bank	49	36.5
				3700			bank	49	36.5
				10605.97			bank	49	36.5

10605.97

Mice Machinery

June 17	27	Baran	279 10600	12	27	Baran	52.2	912
		Bar	279 327	12	6	Bar	52.2	425
			279 566		11	Baran	279 116408.71	
			279 4720					
			279 2503					
			279 1567					
			279 1367					
			279 4455					
			279 2032					
			279 37167					
			279 2075					
			279 1496					
			279 72					
			279 420945					
			279 3949					
			279 225912					
			279 4634					
			279 2127					
			279 32672					
			279 10345					
			279 3671					
			279 2733					
			279 4460					
July 1			279 36271					
			279 2961					
			279 3319					
			279 5712					
			279 96					
			279 21760					
			279 44005					
			279 2461					
			279 15738					
			279 4926					
			279 2500					
			279 452					
			279 23610					
			279 5363					
			279 744					
			279 5190					
			279 6995					
			279 67463					
			279 500					
			279 16500					
			279 99351					
			279 116400.05					

116400.05

Mice Machinery

July 10	3	Baran	279 1164671	24	24	Bar	53.2	345
		Bar	279 3120		25	Bar	279 29	
			279 1479		26	Baran	279 356	
			279 2633					
			279 36665					
			279 2053					
			279 4320					
			279 520					
			279 1172					
			279 314353					
			279 11699					
			279 199539					
			279 3090					
			279 2059					
			279 2460					
			279 215165					
			279 32710					
			279 2764					
			279 4250					
			279 196					
			279 13750					
			279 453					
			279 3023					
			279 10454					
			279 117487					
			279 120073					
			279 1666					
			279 6046					
			279 21427					
			279 61105					
			279 9619					
			279 17560					
			279 15226					
			279 21497					
			279 6126					
			279 9246					
			279 33151					
			279 245					
			279 17925					
			279 15471					
			279 15050					
			279 36203					
			279 3053					
			279 2702					
			279 132507.54					

132507.54

Tree Machining

1901	24	2	Barren	203.5406	91	1901	30	of	Barren	61	112.49
1902	5	Good	321	195.70		1902	12	of	Barren	62	160.99
				7.50	1903	1	of	Barren	63	120	
				96.47	1904						
				55.00							
				59.10							
				60.00							
				354.66							
				351.64							
				1.12							
				2696.14							
5				323	29.26						
					21.12						
10	Barren			62	187.45						
15	Good			323	56.46						
					51.93						
12	of			63	175.33						
21	Good			325	59.32						
					40.00						
					10.10						
					67.32						
					48.23						
					13.66						
					33.03						
				327	123.47						
					66.50						
23				63	175.34						
29				327	52.6						
					167.46						
					106.71						
					135.33						
				329	59.23						
					1103.43						
					67.0						
1901				329	103.51						
					63.03						
					25.54						
					64.46						
					43.48						
					190.06						
					64.61						
					210.00						
					1114.46						
					50.12						
					59.20						
					1692.47						
					1692.47						

Mill Machinery

23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100																	
1	2	Barnum	24716639	39	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	Barnum	24716639	39	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	Barnum	24716639	39	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	Barnum	24716639	39	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	Barnum	24716639	39	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	Barnum	24716639	39	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	Barnum	24716639	39	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	Barnum	24716639	39	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	Barnum	24716639	39	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	Barnum	24716639	39	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	Barnum	24716639	39	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	Barnum	24716639	39	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	Barnum	24716639	39	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	Barnum	24716639	39	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	Barnum	24716639	39	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	Barnum	24716639	39	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	Barnum	24716639	39	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	Barnum	24716639	39	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	5																																										

Plans

[illegible]

Quarries

1903	3	Bureau	501	1133923	1903
May	1	Coal	622	190	
		Coal	143	41842	
	13	Coal	431	19392	
	14	Struckdown	145	3241	
	1	Coal	85	825	
				198	
	16	Struckdown	145	877	
	27	Coal	86	194	
	28	Coal	147	92202	
June	2	Coal	47	11304	1903
	4			180	
	6	Struckdown	149	2741	
	8	Struckdown	150	3236453	
	9	Coal	151	93275	
	10	Struckdown	152	64673	
	11	Coal	15	2924	
	12		69	315	
	13	Struckdown	152	3914	
	14	Coal	90	130	
			92	12402	
				245	
	24	Coal	150	62042	
	25	Coal	93	58	
	26		94	4135	
			11970290	12016201	

12016201

Quarries

1902	22	By	Balcon	59	27299.34	1902	6	By	back	174	10	56
			back	711	8425		12		By back	324	1	50
	30			29	7355.50		5			404	15	56
20	6	By	back	154	1613.23	1901	5			404	5	50
	10		back		713.15		11		back	454	7	05
	15		back	179	62.04					454	7	05
	17				75.00					454	7	05
	20				147.1					454	7	05
	21				40.22					454	7	05
	21				104	867.50				454	7	05
	22	By	back		171.61					454	7	05
	24		back	33	1779.44					454	7	05
	24		back	154	29.41					454	7	05
	25				27.65					454	7	05
1901	31			155	150.00					454	7	05
1901	7			154	251.65					454	7	05
	9				114.00					454	7	05
	10				194	25.47				454	7	05
	10				175					454	7	05
	12			193	40.35					454	7	05
	12			354	1504.56					454	7	05
	15			197	35.35					454	7	05
	19		back	304	697.90					454	7	05
	21		back	39	1440.13					454	7	05
	23		back	197	12.50					454	7	05
	26			194	53					454	7	05
	26				53					454	7	05
	30				5.22					454	7	05
	30				61.56					454	7	05
	31			203	9.50					454	7	05
	31			205	51.00					454	7	05
20	6			109	447.56					454	7	05
	10	By	back	10	157.24					454	7	05
	10		back	209	32.00					454	7	05
	12		back	411	717.75					454	7	05
	14		back	211	92.14					454	7	05
	15	By	back	404	1204.34					454	7	05
	20		back	217	127.01					454	7	05
	25			207	153.22					454	7	05
	26				57.45					454	7	05
	27			203	43.19					454	7	05
	27		back	404	612.91					454	7	05
	27		back	404	1634.72					454	7	05
	27		back	227	16.43					454	7	05
					7504.77					454	7	05

Quarries

1901	21	By	Balcon	447	72012.47	1901	21	By	Balcon	447	72012.47
			back	229	20.55				back	229	20.55
	22			211	1.56					211	1.56
	23		back	451	441.53					451	441.53
	23		back	217	742.5					217	742.5
	24		back	461	113.23					461	113.23
	25		back		299.71						299.71
	26		back	229	52.20					229	52.20
	27			241	6.44					241	6.44
	28		back	471	51.11					471	51.11
	28		back	245	9.07					245	9.07
	29				3.90						3.90
	29				13.00						13.00
	30			247	1.79					247	1.79
	31			253	20.50					253	20.50
1901	2		back	484	37.50					484	37.50
	10		back	255	19.57					255	19.57
	11		back	49	4.3					49	4.3
	1		back		10.40						10.40
	24		back	494	14.44					494	14.44
	24		back	211	22.50					211	22.50
	25			265	1.56					265	1.56
1901	7		back	51	210.21					51	210.21
	12		back	51	29.03					51	29.03
	14		back	227	10.5					227	10.5
	17			269	7.90					269	7.90
	24		back	51	209.63					51	209.63
	26		back	275	12					275	12
	27				24						24
	27				2.50						2.50
1901	6		back	52	51.23					52	51.23
	9		back	53	50.11					53	50.11
	10		back	27	2.5					27	2.5
	11			27	5.15					27	5.15
	12			24	66					24	66
	24		back	53	43.34					53	43.34
	31		back	235	5.00					235	5.00
1901	1		back	54	14.99					54	14.99
	9		back	293	5.00					293	5.00
	21			297	5.50					297	5.50
	23		back	57	20.15					57	20.15
	25		back	303	546.52					303	546.52
					41						41
					75479.05						75479.05

Quarries

1	3	Balanced	29575799	05	6075
6		Barb	309	100	150
7		Bay (Barb)	54	5717	65
11		Barb (Barb)	59	465	69
12		Barb	309	2258	552
13			311	45	8/22
20			313	100	72
5		Bay (Barb)	59	11493	297
6		Barb	323	1260	4425053
10		Barb (Barb)	62	2171	
12		Bay (Barb)	64	55124	
21		Barb	323	570	
1			325	1011	
1				26	
1			327	2060	
23		Bay (Barb)	63	62664	
20		Barb	327	1447	
1			331	5520	
6			333	1505	
7				321	
11		Bay (Barb)	65	14284	
12		Barb (Barb)	66	6402	
14		Barb	339	2859	
22				136	
23		Bay (Barb)	341	2876	
27		Barb	349	110021	
27			341	1212	
30				60	
30			345	105	
4		Bay (Barb)	349	2799	
9		Barb	70	145594	
11			351	3062	
11		Barb (Barb)		6450	
13		Barb	71	102141	
13			353	7471	
14			355	510	
21		Bay (Barb)		26050	
23		Barb	74	130824	
23			107	1075	
25				678	
25			359	61250	
25			361	11669	
25				13375	
25				242679	

Quarries

3	3	Balanced	2964425053	10	4442
1		Barb	361	5909	500
1			363	2970	500
5			365	7693	500
10		Bay (Barb)	74	142107	
14		Barb	367	440	
1			369	12676	
1				742	
1				2244	
15		Barb (Barb)	76	25445	
21		Barb	371	5940	
23				1544	
23		Bay (Barb)	77	162077	
24		Barb	373	4636	
29				12340	
1			377	12535	
1				20	
3				1542	
1			379	5469	
1				4550	
7				2107	
1				3960	
1		Bay (Barb)	74	169147	
12		Barb (Barb)	79	4467	
14		Barb	381	5494	
1				4403	
24		Bay (Barb)	81	69751	
27		Barb	381	16203	
1				792	
1			385	1255	
1				12553	
1			387	2153	
1				425	
1				1250	
1		Bay (Barb)	84	84191	
12		Barb (Barb)	82	6656	
15		Barb	387	792	
24		Bay (Barb)	83	44023	
25		Barb (Barb)	84	57712	
27		Barb	391	10294	
1				2794	
24			390	11153	
31				670	
31				337165	

Quarries

1902	1901	1900	1899	1898	1897	1896	1895	1894	1893	1892	1891	1890	1889	1888	1887	1886	1885	1884	1883	1882	1881	1880	1879	1878	1877	1876	1875	1874	1873	1872	1871	1870	1869	1868	1867	1866	1865	1864	1863	1862	1861	1860	1859	1858	1857	1856	1855	1854	1853	1852	1851	1850	1849	1848	1847	1846	1845	1844	1843	1842	1841	1840	1839	1838	1837	1836	1835	1834	1833	1832	1831	1830	1829	1828	1827	1826	1825	1824	1823	1822	1821	1820	1819	1818	1817	1816	1815	1814	1813	1812	1811	1810	1809	1808	1807	1806	1805	1804	1803	1802	1801	1800	1799	1798	1797	1796	1795	1794	1793	1792	1791	1790	1789	1788	1787	1786	1785	1784	1783	1782	1781	1780	1779	1778	1777	1776	1775	1774	1773	1772	1771	1770	1769	1768	1767	1766	1765	1764	1763	1762	1761	1760	1759	1758	1757	1756	1755	1754	1753	1752	1751	1750	1749	1748	1747	1746	1745	1744	1743	1742	1741	1740	1739	1738	1737	1736	1735	1734	1733	1732	1731	1730	1729	1728	1727	1726	1725	1724	1723	1722	1721	1720	1719	1718	1717	1716	1715	1714	1713	1712	1711	1710	1709	1708	1707	1706	1705	1704	1703	1702	1701	1700	1699	1698	1697	1696	1695	1694	1693	1692	1691	1690	1689	1688	1687	1686	1685	1684	1683	1682	1681	1680	1679	1678	1677	1676	1675	1674	1673	1672	1671	1670	1669	1668	1667	1666	1665	1664	1663	1662	1661	1660	1659	1658	1657	1656	1655	1654	1653	1652	1651	1650	1649	1648	1647	1646	1645	1644	1643	1642	1641	1640	1639	1638	1637	1636	1635	1634	1633	1632	1631	1630	1629	1628	1627	1626	1625	1624	1623	1622	1621	1620	1619	1618	1617	1616	1615	1614	1613	1612	1611	1610	1609	1608	1607	1606	1605	1604	1603	1602	1601	1600	1599	1598	1597	1596	1595	1594	1593	1592	1591	1590	1589	1588	1587	1586	1585	1584	1583	1582	1581	1580	1579	1578	1577	1576	1575	1574	1573	1572	1571	1570	1569	1568	1567	1566	1565	1564	1563	1562	1561	1560	1559	1558	1557	1556	1555	1554	1553	1552	1551	1550	1549	1548	1547	1546	1545	1544	1543	1542	1541	1540	1539	1538	1537	1536	1535	1534	1533	1532	1531	1530	1529	1528	1527	1526	1525	1524	1523	1522	1521	1520	1519	1518	1517	1516	1515	1514	1513	1512	1511	1510	1509	1508	1507	1506	1505	1504	1503	1502	1501	1500	1499	1498	1497	1496	1495	1494	1493	1492	1491	1490	1489	1488	1487	1486	1485	1484	1483	1482	1481	1480	1479	1478	1477	1476	1475	1474	1473	1472	1471	1470	1469	1468	1467	1466	1465	1464	1463	1462	1461	1460	1459	1458	1457	1456	1455	1454	1453	1452	1451	1450	1449	1448	1447	1446	1445	1444	1443	1442	1441	1440	1439	1438	1437	1436	1435	1434	1433	1432	1431	1430	1429	1428	1427	1426	1425	1424	1423	1422	1421	1420	1419	1418	1417	1416	1415	1414	1413	1412	1411	1410	1409	1408	1407	1406	1405	1404	1403	1402	1401	1400	1399	1398	1397	1396	1395	1394	1393	1392	1391	1390	1389	1388	1387	1386	1385	1384	1383	1382	1381	1380	1379	1378	1377	1376	1375	1374	1373	1372	1371	1370	1369	1368	1367	1366	1365	1364	1363	1362	1361	1360	1359	1358	1357	1356	1355	1354	1353	1352	1351	1350	1349	1348	1347	1346	1345	1344	1343	1342	1341	1340	1339	1338	1337	1336	1335	1334	1333	1332	1331	1330	1329	1328	1327	1326	1325	1324	1323	1322	1321	1320	1319	1318	1317	1316	1315	1314	1313	1312	1311	1310	1309	1308	1307	1306	1305	1304	1303	1302	1301	1300	1299	1298	1297	1296	1295	1294	1293	1292	1291	1290	1289	1288	1287	1286	1285	1284	1283	1282	1281	1280	1279	1278	1277	1276	1275	1274	1273	1272	1271	1270	1269	1268	1267	1266	1265	1264	1263	1262	1261	1260	1259	1258	1257	1256	1255	1254	1253	1252	1251	1250	1249	1248	1247	1246	1245	1244	1243	1242	1241	1240	1239	1238	1237	1236	1235	1234	1233	1232	1231	1230	1229	1228	1227	1226	1225	1224	1223	1222	1221	1220	1219	1218	1217	1216	1215	1214	1213	1212	1211	1210	1209	1208	1207	1206	1205	1204	1203	1202	1201	1200	1199	1198	1197	1196	1195	1194	1193	1192	1191	1190	1189	1188	1187	1186	1185	1184	1183	1182	1181	1180	1179	1178	1177	1176	1175	1174	1173	1172	1171	1170	1169	1168	1167	1166	1165	1164	1163	1162	1161	1160	1159	1158	1157	1156	1155	1154	1153	1152	1151	1150	1149	1148	1147	1146	1145	1144	1143	1142	1141	1140	1139	1138	1137	1136	1135	1134	1133	1132	1131	1130	1129	1128	1127	1126	1125	1124	1123	1122	1121	1120	1119	1118	1117	1116	1115	1114	1113	1112	1111	1110	1109	1108	1107	1106	1105	1104	1103	1102	1101	1100	1099	1098	1097	1096	1095	1094	1093	1092	1091	1090	1089	1088	1087	1086	1085	1084	1083	1082	1081	1080	1079	1078	1077	1076	1075	1074	1073	1072	1071	1070	1069	1068	1067	1066	1065	1064	1063	1062	1061	1060	1059	1058	1057	1056	1055	1054	1053	1052	1051	1050	1049	1048	1047	1046	1045	1044	1043	1042	1041	1040	1039	1038	1037	1036	1035	1034	1033	1032	1031	1030	1029	1028	1027	1026	1025	1024	1023	1022	1021	1020	1019	1018	1017	1016	1015	1014	1013	1012	1011	1010	1009	1008	1007	1006	1005	1004	1003	1002	1001	1000	999	998	997	996	995	994	993	992	991	990	989	988	987	986	985	984	983	982	981	980	979	978	977	976	975	974	973	972	971	970	969	968	967	966	965	964	963	962	961	960	959	958	957	956	955	954	953	952	951	950	949	948	947	946	945	944	943	942	941	940	939	938	937	936	935	934	933	932	931	930	929	928	927	926	925	924	923	922	921	920	919	918	917	916	915	914	913	912	911	910	909	908	907	906	905	904	903	902	901	900	899	898	897	896	895	894	893	892	891	890	889	888	887	886	885	884	883	882	881	880	879	8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Since Administration)

1901	2	2	Bureau	303	562.44	63	1901	2	2	By the	46	20	50
1902	5		bank	257	7.25		1902	5		bank	47	51	25
1903	6			259	3.25	1903	6			48	51	35	
1904	6			259	12		1904	6			49	20	60
1905	8		By the	46	593.60		1905	8		By the	50	40	51
1906	10		Bank	47	24.40		1906	10		Bank	51	40	51
1907	12		bank	259	4.63		1907	12		bank	52	40	51
1908	12			241	46.25		1908	12			53	40	51
1909	17				23.47		1909	17			54	40	51
1910	20		By the	47	579.25		1910	20		By the	55	40	51
1911	26		bank	48	37.25		1911	26		bank	56	40	51
1912					170		1912				57	40	51
1913					25		1913				58	40	51
1914					4.2		1914				59	40	51
1915				4.5	16.05		1915				60	40	51
1916					16		1916				61	40	51
1917					26.00		1917				62	40	51
1918	29			247	51.15		1918	29			63	40	51
1919					55		1919				64	40	51
1920	30				42.1		1920	30			65	40	51
1921					12.4		1921				66	40	51
1922				247	4.50		1922				67	40	51
1923					175		1923				68	40	51
1924					14.15		1924				69	40	51
1925					49.25		1925				70	40	51
1926					3.0		1926				71	40	51
1927					15		1927				72	40	51
1928				251	500.00		1928				73	40	51
1929					216.66		1929				74	40	51
1930	2			251	7.20		1930	2			75	40	51
1931					13.50		1931				76	40	51
1932	10		By the	48	569.96		1932	10		By the	77	40	51
1933	11		Bank	49	4.63		1933	11		Bank	78	40	51
1934			bank	259	90.91		1934			bank	79	40	51
1935	17			259	20.96		1935	17			80	40	51
1936					6.93		1936				81	40	51
1937					7.20		1937				82	40	51
1938	24		By the	49	531.34		1938	24		By the	83	40	51
1939			bank	261	2.4		1939			bank	84	40	51
1940	27				168.71		1940	27			85	40	51
1941	30			261	4.12		1941	30			86	40	51
1942					10.00		1942				87	40	51
1943					500.00		1943				88	40	51
1944					125.00		1944				89	40	51
1945					406.66	75	1945				90	40	51
1946					406.66	75	1946				91	40	51
1947					406.66	75	1947				92	40	51
1948					406.66	75	1948				93	40	51
1949					406.66	75	1949				94	40	51
1950					406.66	75	1950				95	40	51
1951					406.66	75	1951				96	40	51
1952					406.66	75	1952				97	40	51
1953					406.66	75	1953				98	40	51
1954					406.66	75	1954				99	40	51
1955					406.66	75	1955				100	40	51

Inciv Administration

[illegible]

Misc Administration

1901	Aug	7	27	Bureau	305 499.35	32	Aug 28	By Aug (see)	71 50.25
				Rail	291 4.26	7			57 14.91
					152.23	16			59 6.95
					293 3.05	24			57 49.15
							3	Bureau	

4977.76

Misc Administration

1901	Aug	3	2	Bureau	504 491.05	32	Aug 12	By Aug (see)	62 15.44
				Rail	221 500.00	23			64 6.75
		10		Stanthorn	62 6.13			By Aug (see)	64 1.40
		12		By Aug	63 496.34	11			65 25.80
		21		Rail	25 25	23		Rail	65 135.11
					49.04			By Aug	69 2.45
					5.44	9			70 18.45
					55	14		Bureau	10 2.40
					193.39				11 49.71
		23		By Aug	63 57.95				
		29		Rail	127 1.00				
					15.51				
					50				
Aug		1			501 599.22				
					84				
					72.75				
					333 500.00				
					225.00				
		6			91.67				
		11		By Aug	65 59.76				
		12		Stanthorn	66 2.66				
		14		Rail	517 99.00				
					339 105.00				
					8000				
					441 15.40				
		22			140 19.00				
		23		By Aug	69 540.46				
		30		Rail	515 216.66				
					500.00				
					57 13.00				
					519 50				
Dec		4			111				
					3.00				
					16.00				
					9.00				
					3.29				
					44.44				
		5			557 243.41				
		9		By Aug	70 505.34				
		11		Stanthorn	71 2.55				
				Rail	353 3.95				
		13			558 2.64				
					5.10				
		14			5477.72				
					5477.72				
					5477.72				

5477.72

Price Administration

21	Dec	14	By Balance	307,545.64	1941	21	By Pay due	724	57.25	
		21	Pay due	714	55.75	1941	10		744	19.07
		22	By	507	2.50			By	566	106.05
1942	Jan	1		511	50.00		22	Nothing to	76	2.72
		2		501	216.66		25	Pay due	771	36.05
		3			500.00		27	By	572	222.61
		4			500		29	By due	794	434.55
		5			500		31		800	37.17
		6		505	11.00	1941	34		800	58.58
		7			13.23		37		800	70.50
		8			2.45		39	Balance	809	613.40
		10	Pay due	744	544.58					
		14	By	507	50.5					
		15		509	31.0					
		16			7.62					
		17	Nothing to	76	172.56					
		22	By	571	23.76					
		23		574	206.54					
		25	Pay due	771	604.20					
		29	By	771	27					
24	Feb	1		771	70.85					
		3			225.00					
		4			500.00					
		7		579	126.49					
		8		541	15.44					
		11	Pay due	744	703.00					
		12	Nothing to	771	216.66					
		16	By	541	44.75					
		24	Pay due	541	1.50					
		27	By	541	610.31					
		29	By	500	13.20					
		31			500.00					
		3			200.00					
March		5		541	62.00					
		7			219.40					
		8		541	44					
		11	Pay due	541	240					
		12	Nothing to	541	551.19					
		15	By	541	22.14					
		24	Pay due	541	13.20					
		27	By	541	657.93					
		29	By	541	15.4					
		31	By	541	14.70					
					90					
				619.54	43					
				619.54	43					

Price Administration

1941	27	By Balance	507,613.40	1941	31	By Balance	615.52
28	By	571	1070				
29	By	571	6.50				
31	By	571	50				
1	By	571	157.44				
2	By	571	882.15				
3	By	571	615.52				
4	By	571	85.50				
5	By	571	500.00				
6	By	571	216.66				
7	By	571	9.90				
8	By	571	159.00				
9	By	571	640.41				
10	By	571	150				
11	By	571	630				
12	By	571	92.70				
13	By	571	24				
14	By	571	10.25				
15	By	571	3.50				
16	By	571	4.97				
17	By	571	4.53				
18	By	571	70.27				
19	By	571	50.56				
20	By	571	100				
21	By	571	19.4				
22	By	571	23.55				
23	By	571	177				
24	By	571	2500				
25	By	571	3.50				
26	By	571	9.4				
27	By	571	3.25				
28	By	571	50				
29	By	571	46.25				
30	By	571	15.14				
31	By	571	4.74				
1	By	571	900				
2	By	571	135.00				
3	By	571	7.25				
4	By	571	12.05				
5	By	571	2.00				
6	By	571	7.00				
7	By	571	25.90				
8	By	571	44.0				
9	By	571	4.2				
10	By	571	619.54				

Mill Administration

1902				1902			
Apr 21	By Balance	109	6399.35	Apr 22	By Cash	12	71.51
"	" " "	"	120.1	"	" " "	12	1.19
"	" " "	"	755.4	"	" " "	14	52.64
"	" " "	"	1200.1	"	" " "	14	255.90
"	" " "	"	270.1	"	" " "	15	100.70
24	"	12	2310.1	"	" " "	15	59.65
"	" " "	"	4555.1	"	" " "	16	15.47
25	By Cash	7	792.12	"	" " "	27	55.15
26	" " "	13	259.65	"	" " "	27	53.82
"	" " "	"	15.7	"	" " "	31	690.45
"	" " "	"	90.1	"	" " "	"	"
27	" " "	14	213.1	"	" " "	"	"
30	"	"	3.62	"	" " "	"	"
"	" " "	"	216.67	"	" " "	"	"
"	" " "	"	500.00	"	" " "	"	"
May 1	"	15	6517.25	"	" " "	"	"
"	" " "	"	20	"	" " "	"	"
7	"	"	425.1	"	" " "	"	"
"	" " "	"	252.5	"	" " "	"	"
"	" " "	16	572.7	"	" " "	"	"
"	" " "	"	742.5	"	" " "	"	"
9	By Cash	904	729.54	"	" " "	"	"
10	" " "	"	122.80	"	" " "	"	"
21	" " "	16	9.58	"	" " "	"	"
"	" " "	17	17.5	"	" " "	"	"
"	" " "	"	62.50	"	" " "	"	"
"	" " "	"	1.54	"	" " "	"	"
"	" " "	"	5.67	"	" " "	"	"
"	" " "	"	22.00	"	" " "	"	"
"	" " "	"	90.72	"	" " "	"	"
22	"	17	2.59	"	" " "	"	"
"	" " "	"	50	"	" " "	"	"
"	" " "	"	9.47	"	" " "	"	"
"	" " "	"	2.50	"	" " "	"	"
"	" " "	19	1.65	"	" " "	"	"
"	" " "	"	108.74	"	" " "	"	"
24	"	"	85.52	"	" " "	"	"
"	" " "	20	29.70	"	" " "	"	"
27	By Cash	91	724.39	"	" " "	"	"
June 7	" " "	"	532.62	"	" " "	"	"
"	" " "	"	22.50	"	" " "	"	"
"	" " "	"	14.85	"	" " "	"	"
"	" " "	"	15.46	"	" " "	"	"
10	By Cash	94	220.12	"	" " "	"	"
"	" " "	"	6970.50	"	" " "	"	"

6970.50

Mill Administration

1902				1902			
June 10	By Balance	310	690.45	June 25	By Cash	964	525
"	" " "	95	149.8	"	" " "	974	59.91
"	" " "	22	13.41	"	" " "	994	119.40
"	" " "	"	7.50	"	" " "	444	7352.24
"	" " "	"	2.60	"	" " "	"	"
25	By Cash	964	724.71	"	" " "	"	"
27	" " "	23	348.30	"	" " "	"	"
"	" " "	"	4.00	"	" " "	"	"
"	" " "	"	632	"	" " "	"	"
"	" " "	"	1.51	"	" " "	"	"
"	" " "	"	2.00	"	" " "	"	"
"	" " "	"	120.34	"	" " "	"	"
"	" " "	"	57.49	"	" " "	"	"
"	" " "	"	67.21	"	" " "	"	"
"	" " "	24	1.85	"	" " "	"	"
"	" " "	"	9.06	"	" " "	"	"
"	" " "	"	1.44	"	" " "	"	"
"	" " "	"	7.5	"	" " "	"	"
25	"	25	22.00	"	" " "	"	"
"	" " "	"	12.00	"	" " "	"	"
July 1	By Cash	974	251.41	"	" " "	"	"
10	" " "	984	773.1	"	" " "	"	"
"	" " "	26	22.47	"	" " "	"	"
"	" " "	"	4.00	"	" " "	"	"
"	" " "	"	1.15	"	" " "	"	"
12	"	27	570.00	"	" " "	"	"
"	" " "	"	204.45	"	" " "	"	"
15	"	"	662	"	" " "	"	"
"	" " "	"	16.00	"	" " "	"	"
"	" " "	"	1.44	"	" " "	"	"
22	"	27	69.43	"	" " "	"	"
"	" " "	"	41.00	"	" " "	"	"
"	" " "	"	46.25	"	" " "	"	"
23	"	"	19.51	"	" " "	"	"
"	" " "	"	9.60	"	" " "	"	"
"	" " "	"	15.02	"	" " "	"	"
"	" " "	29	6.00	"	" " "	"	"
"	" " "	"	1.10	"	" " "	"	"
"	" " "	994	425.79	"	" " "	"	"
25	By Cash	30	27.71	"	" " "	"	"
"	" " "	"	220.24	"	" " "	"	"
"	" " "	"	14.39	"	" " "	"	"
"	" " "	"	2.49	"	" " "	"	"
"	" " "	31	23.64	"	" " "	"	"
"	" " "	"	7368.67	"	" " "	"	"

7368.67

Shipping Departures

1991	12	27	Sanchez	557	197	1993	Jun 58	of	Bar 2 2	56	22	12	6
1992	23		Barb	744	1972								
1993	10			505	21	55-1							
					2272							22	12

Masonry

1901 Aug	5	3	Balance	59	15622.03	1901 Sep	7	By Pay chkd	59	470
	6		bank	59	54.19		16	By Pay chkd	59	204
	7			59	73.20		27	bank	59	17.10
	9			59	137.34	Aug	25	By chkd	62	410
	12			59	2080		28	By	62	535
	15			59	2646	By	11		65	838
	18			59	7032		12	Balance	12	93127.2
	21				2202					
				59	52					
	23		By chkd	59	499.53					
	24		bank	50	294.00					
	25			50	54.56					
				50	31.69					
	28			50	15.67					
Apr	6			50	137.50					
	7		By chkd	54	505.45					
	10		Stonehorn	59	44.37					
	12		bank	50	127.40					
					1070					
				51	12.64					
					36.63					
					53.59					
					127.90					
	20			51	52.5					
	16		By chkd	59	676.07					
	24		bank	51	124.41					
				51	17.34					
	26				39.29					
	28			51	45.44					
May	8			52	1066.61					
					254.50					
	10		Stonehorn	62	20.32					
	12		By chkd	63	641.22					
	21		bank	52	134.34					
				52	44.00					
	23		By chkd	63	709.03					
	29		bank	52	52.57					
					195.44					
	1			54	1156.53					
				53	254.40					
	6				21.40					
	7			53	49.56					
	11		By chkd	65	1150.10					
	14		Stonehorn	66	549.12					
					9373.46					

95170.46

Masonry

1901 Sep	12	3	Balance	52	93127.72	1901 Oct	15	By chkd	67	60.20
	14		bank	59	25.12			By chkd	69	7.02
	15			54	303.61		21		72	75.74
	22				29.70		11		74	77.25
	23		By chkd	69	1047.32		3	Balance	12	10163.72
	27		bank	54	254.40					
					101.53					
					40.4					
					103.99					
	30			54	139.10					
					114.45					
Dec	5			55	19.95					
	9		By chkd	70	991.52					
			bank	54	254.40					
					46.55					
	11		Stonehorn	71	229.50					
			bank	53	58.75					
	13			55	1.60					
	21		By chkd	71	794.30					
	23		bank	57	170.49					
					131.55					
				59	21.41					
1902 Feb	3			56	532.10					
					27.25					
					24.70					
	6			56	17.62					
	8			56	139.95					
					24.13					
					254.40					
	10		By chkd	74	1276.45					
	14		bank	59	14.32					
					99.47					
					7.44					
	15		Stonehorn	74	252.46					
	22		bank	57	55.64					
					11.50					
	23		By chkd	77	1049.66					
	24		bank	58	9.57					
	29			57	232.63					
Apr	1			57	1153.94					
	3				64.11					
					51.4					
				58	19.54					
				59	14.20					
					10163.72					

10163.72

Dead Cattle

1901	May	3	Barren	55	1057	1101	1901	May	20	By	By	Dead	45	500
		3	By	Dead	45	60	June	5					45	1000
		21	Dead	25	7000			23					47	500
		23	By	Dead	45	900	May	9					40	1000
		27	Dead	23	1200			24					49	400
June	1	By	Dead	46	700	623	June	5					50	1000
	19	Dead	24	200				12	Dead				24	3000
				137	90			24	By	Dead			52	400
	23	By	Dead	47	550			6					52	1000
	29	Dead	47	174	49			24					54	400
May	9	By	Dead	48	1200			1					54	1000
	11	Dead	48	343				16	Barren				57	1057
	24	By	Dead	49	149	17							57	1057
June	7	Dead	49	50	51									
	8	By	Dead	50	130	17								
	12	Barren	51	139	51									
	14	Dead	51	25	26									
	20		52	1000										
	24	By	Dead	51	40									
July	6		52	52	95									
	9	Barren	53	120										
	11	Dead	54	25	40									
	12		55	11	25									
	24	By	Dead	53	24	92								
	31	Dead	53	19	93									
Aug	1	By	Dead	51	42									
	3	Barren	51	11										
	3	Dead	57	50	25									
	7		57	25	50									
	9		53	22	64									
	12		55	57	50									
	16		51	22										
	21		57	57										
			59	9	147									
	23	By	Dead	57	20	59								
	24	Dead	50	20	59									
	29		50	59	60									
Sept	6		50	17										
	7	By	Dead	50	16	25								
	10	Barren	59	2	15									
	16	By	Dead	50	2	10								
				1057	1101									

1057 1101

Dead Cattle

1901	May	16	By	Barren	52	1057	1101	1901	May	12	By	By	Dead	62	1000
		26	Dead	51	700					11				65	1000
		3		52	24	00				23				69	1000
		15		52	199	35	100			9				70	1000
		12	By	Dead	52	130				21				72	1000
		21	Dead	52	33	50	100			10				74	1000
					294					23				77	1000
		23	By	Dead	63	9	54			7				79	1000
		29	Dead	52	147	59	100			24				80	1000
May	1		53	1200	177					31	Barren			84	1000
	6		53	3	25									85	1000
	7		55	3	45									85	1000
			57	90	45										
		11	By	Dead	65	4	74								
		12	Barren	66	18	64									
		23	By	Dead	69	14	57								
June	5	Dead	55	11	25	65									
	9	By	Dead	70	16	23									
	11	Barren	71	4	02										
		Dead	55	100	00										
		16		23	10										
		17		20	00										
				12	94										
		21	By	Dead	71	11	12								
1902	May	3	Dead	53	6	25	65								
		8		47	2	19									
		10	By	Dead	74	1	74								
		15	Barren	76	2	07									
		22	Dead	77	69	95									
		23	By	Dead	77	4	96								
		29	Dead	77	39	45									
July	1		77	107	50	64									
		2	By	Dead	77	33									
		12	Barren	79	2	107									
		27	Dead	80	7	40									
		28		80	10	406									
		12	Barren	82	107	94	10								
		15	Dead	87	2	40									
		24	By	Dead	83	10	13								
		31	Dead	79	7	400									
				1057	1101										

1057 1101

Head Estate

Apr	1	Barrow	329	107764	664	May 9	By By due	904	2500
	2	Bar	1	6146	1	27		924	500
	9		5	975	10			974	1500
	10	By due	16	154	1			974	1500
	12	Bar	16	33	9			1014	1500
	24	Bar	12	1966	25			1034	700
			15	7000	1			1064	1000
	25	By due	17	3173	10			1174	800
	26	Bar	13	141	1			1194	1500
				1755	1			1124	700
May	7		15	8430			H. J. Barrow		2100
	9	By due	904	700	12		H. J. Barrow	1134	650
	10	Bar	1	15	22		By due	1144	700
	27	By due	914	90	23			1204	1700
June	10		940	2546			Barrow	331	1072500
	12	Bar	954	14					
	25	By due	964	4464					
July	1		974	1013	100				
	10	Bar	984	1300					
	22	Bar	244	20					
	24	By due	994	2500					
Aug	9		1004	722					
	11	Bar	1024	464					
	25	By due	1034	140					
	27	Bar	564	450					
Sept	1	By due	1044	244					
		Bar	504	450					
				735					
				560					
	10	Bar	1064	76					
Oct	22	By due	1114	242	244				
	24	Bar	444	12					
				175					
	25		494	7500					
	27			25					
Nov	1	By due	1124	95					
	22		1144	365					
	24	Bar	614	445					
Dec	6		544	2020	1				
	2	By due	1164	1002					
	10	Bar	1184	712					
				231					
	10	Bar	54	1520					
				10743105					

Head Estate

Dec	25	Barrow	200	107250	40	1993	12	By By due	124	350
		By due	1204	2452	27		11		124	1500
1993	14	Bar	1244	253			24		124	1200
	21	Bar	634	50	106		25		1414	1200
	25		704	124	102		26		1474	1200
1994	19		744	124	102		26		1554	1200
				15714			30	Bar 22	120	107250
	20	Bar	1334	39						
	23	By due	1434	1156						
Apr	23	Bar	800	6620						
May	1		824	22	13					
	2	By due	1434	342						
	14	Bar	1454	14						
	25	Bar	1464	1946						
	27	By due	1474	2411						
June	6	Bar	1494	1452	245					
	8	Bar	874	420						
	9	By due	1514	6414						
	10	Bar	894	410						
	11		904	963						
		Bar	1524	2639						
	19	Bar	904	1945						
				300						
			914	2500						
	22		934	1040						
	24	By due	1564	772						
				10743105						
				10743105						

bonnyors

1902 April	1	To Balance	335+1473775	1902 June 30	of Fred Mack	97	4000.00
		10737-75		1902 June 30	Bar 22	103	10737750
			1473775				14737750

Coal Grinding

1911	May	22	By Salomon	2354	177.00	1911	May	9	By Longford	345	142.59	26
		27	" " " "	2351	18.71							
		29	" " " "	2353	54.59							
		30	" " " "	"	50							
		31	" " " "	"	196							
	April	2	" " " "	237	20.44							
		3	" " " "	"	16.54							
		6	" " " "	2394	14							
		12	" " " "	"	17.54							
		13	" " " "	2414	17.74							
		17	" " " "	"	13.77							
		25	" " " "	"	263							
		26	" " " "	2431	8.45							
		28	" " " "	"	45							
		29	" " " "	"	2.51							
		30	" " " "	2474	50.27							
		31	" " " "	"	245							
		1	" " " "	2494	19.4							
	May	2	" " " "	253	12.1							
		3	" " " "	"	12.0							
		4	" " " "	"	1.16							
		5	" " " "	"	57.4							
		10	" " " "	255	42							
		11	" " " "	257	44.01							
		12	" " " "	"	30.12							
		17	" " " "	259	76							
		24	" " " "	261	66.54							
		27	" " " "	"	16.40							
		28	" " " "	263	4.63							
	June	7	" " " "	265	9.5							
		17	" " " "	267	70							
		18	" " " "	"	40							
		19	" " " "	269	2.08							
		20	" " " "	"	2.54							
		21	" " " "	271	1.20							
		22	" " " "	273	194.61							
		27	" " " "	"	67.93							
		28	" " " "	275	12.70							
	July	11	" " " "	277	13.7							
		12	" " " "	279	71.39							
		13	" " " "	"	19.17							
		31	" " " "	283	64.42							
		31	" " " "	"	20.00							
		31	" " " "	285	11.64							
		31	" " " "	293	62.40							
		31	" " " "	"	64.25							
	Aug	9	" " " "	295	141.54							
		9	" " " "	"	142.59							

142.59 26

Coal Grinding

1911	Aug	9	By Amey find	344	142.59	1911	May	31	By Salomon	1451	04
		10	" " " "	295	172.59						
		21	" " " "	299	2.05						
		"	" " " "	"	54.15						
		"	" " " "	"	14.62						
		22	" " " "	301	15.26						
		25	" " " "	"	66.24						
		29	" " " "	305	1.60						
By		6	" " " "	309	14.77						
		20	" " " "	313	8.35						
		"	" " " "	"	4.65						
		24	" " " "	315	14.00						
Oct		3	" " " "	321	14.50						
		5	" " " "	323	40.76						
Nov		6	" " " "	325	1.50						
		"	" " " "	331	14.82						
		"	" " " "	"	5.70						
		7	" " " "	335	23.36						
		11	" " " "	337	28.03						
		14	" " " "	341	1.50						
		14	" " " "	343	15.90						
		17	" " " "	347	14.33						
Dec		3	" " " "	363	11.46						
1911		17	" " " "	371	25.07						
		19	" " " "	375	14.45						
		25	" " " "	381	14.42						
					1451.04						
					1451.04						
Apr		1	By Salomon	1455	04	1912	June	30	By Bow 22	05	1446
July		12	" " " "	27	4.50						
1912		1	By W. L. Lamm	1504	6.94						
					1456						

1446.256

Wire Buildings

1901	May	30	3	bar	54	6947.02	1901	May	24	3	bar	49	570
		1		bar	233.2	544.13			1		bar	50	25
	April	2			227.7	555.23		May	1		bar	50	56510.92
		5		bar	461	150.27							
		10		bar		963.91							
		17		bar	241	16.80							
		19				1.40							
		23		bar	474	1589.61							
		26		bar	255.0	555.19							
		29				32.59							
					247	1.29							
		30				589.2							
						17.37							
					219	320.63							
						6.00							
	May	9		bar	45	555.54							
		10		bar	155	55.06							
		11		bar	49	555.70							
				bar	257	26.00							
		17			259	2.82							
						6.77							
		24		bar	49	1372.76							
		27		bar	261	26.15							
	June	7		bar	265	170.05							
				bar	50	1250.51							
		12		bar	51	503.03							
		14		bar	267	157.4							
		17				2.6							
					269	2.8							
						582.5							
		19			271	5.5							
		24		bar	51	1427.62							
		29		bar	255	12.50							
	July	6		bar	52	1504.62							
		9		bar	53	463.05							
		10		bar	277	32.40							
		11			279	25.75							
		12			261	2.75							
						2.80							
					283	3.15							
		24		bar	53	1129.15							
		31		bar	283	155.55							
	Aug	1		bar	54	1423.09							
				bar		330.52							
						5444.17							

5444.17

Wire Buildings

1901	May	1	3	bar	538	5610.92	1901	May	16	3	bar	59	55
		2		bar	27	91.53			2		bar	654	62.63
		3			279	230.42			23		bar	352	101.44
		7			291	58.54							
					293	15.14							
		9				25.00							
		16			297	18.54							
						N 643.55							
		21				27.50							
					299	1.05							
		23		bar	57	1105.16							
		24		bar	243	78.00							
		30			307	36.67							
		6			309	25.70							
	May	7		bar	54	1369.26							
		10		bar	59	317.25							
		12		bar	311	27							
						3102.10							
		20			313	5.00							
		16		bar	59	1076.30							
		26		bar	315	107.8							
						104.40							
					317	45.54							
		27			317	1.27							
	May	3			317	5.00							
		10		bar	62	646.03							
		12		bar	63	1202.41							
		21		bar	327	4.0							
						556.4							
		23		bar	63	1333.15							
		29		bar	329	292.59							
						272.63							
	May	1			331	371.15							
						12.16							
		6			333	25.00							
		7			335	3.74							
		11		bar	65	1267.16							
		12		bar	66	969.24							
		14		bar	347	12.4.16							
					349	14.25							
						3.0							
		15			341	7.90							
		22				59.60							
		23		bar	69	1336.53							
						10144.72							

10144.72

New Buildings

1901	23	By Bureau	5511011121	1901	4	By Bureau	70	1173	20
May	38	bad	545	10	By Bureau	74	240		
			547	23		77	65		
Jun	4	By Bureau	551	27	By Bureau	553	1244	17	
	9	By Bureau	70	133	12				
		bad	551	6	47				
	11	Shut down	71	170	5				
		bad	551	290	40				
			553	1	97				
	14		555	56	26				
	21	By Bureau	71	266	77				
	23	By Bureau	557	154	27				
				8	550	15			
				21	52	40			
			559	146	02				
1902	25			8	75				
Jan	3		551	103	47				
			563	223	54				
					113	34			
	6				49	50			
	8		565	128	04				
					440	46			
					9	40			
	9		567	9	60				
					11	55			
	10	By Bureau	74	244	06				
	14	bad	567		42				
				20	604	42			
			569	244	07				
					77	4			
					7	64			
	15	Shut down	76	229	49				
	22	bad	571	99	00				
					6	25			
	23	By Bureau	77	255	42				
	29	bad	573	55	44				
July	1		77	146	32	56			
	3			125	104				
					54	44			
					5	94			
	7		579	66	00				
	12	By Bureau	74	251	46				
	12	Shut down	79	179	79				
	15	bad	581	54	67				
					125	66	02		

12566952

New Buildings

1902	18	By Bureau	582	149	27	1902	21	By Bureau	74	440	10
July	24	By Bureau	584	245	64	24	By Bureau	74	440	10	
	27	bad	585	256	92	21	By Bureau	74	440	10	
Aug	3		585	37	70	21	By Bureau	74	440	10	
					56	01					
					29	55					
					26	64					
			587	543	49						
		By Bureau	584	195	06						
	12	Shut down	582	91	29						
	15	bad	589	52	40						
	21	By Bureau	582	492	124						
		Shut down	587	49	49						
	24	By Bureau	582	262	57						
	25	By Bureau	584	263	66						
	27	bad	589	14	73						
			591		44						
	28		593	2	42						
					137	62	16				
Aug	1	By Bureau	587	304	36	18	By Bureau	74	440	10	
	2	bad	584	41	54	19	By Bureau	74	440	10	
			582	2	61						
	3				16	59					
	7		583	13	62						
					224	50					
					19	70					
					7	61					
					16	12	00				
	4		584	1	00						
					2	01					
	9		584	40	33						
					242	64					
					5	00					
					17	91					
	10	By Bureau	582	275	20						
		bad	584	9	11						
	11		587	42	32						
					177	25					
					5	60					
	12		584	21	62						
		Shut down	584	21	62						
	17	bad	589	26	79						
					7	15					
					262	90					
	19				13	54					
					430	87	59				

1430079

New Buildings

1901 April	19	2	Bureau	553145001.57	1902 May	9	by hand	16	2.03	
			bad	10	264.15	June	10	by hand	94	4.00
	21			12	131.01	July	25	Bureau	55370295.56	
					52.73					
	24				97.02					
	25		Pay due	27	264.03					
	27		bad	13	109.1					
				14	61.02					
May	1			15	260.57					
					13.09					
	7		by hand	90	326.45					
	9		by hand		159.12					
	10		by hand		159.12					
	21		bad	16	292.10					
					297.51					
					131.52					
				17	17.40					
	22			14	64.67					
					126.69					
	24			19	99.00					
	27		Pay due	41	302.22					
	29		bad	20	67.94					
June	7			21	247.55					
					62.57					
	10		by hand	94	3019.53					
	12		by hand	95	1032.43					
	13		bad	22	40					
	24			23	529.01					
	25				19.62					
			Pay due	96	2629.57					
	27		bad	14	95					
					595					
July	1		by hand	97	3652.33					
	10		by hand	97	903.34					
	12		bad	26	197.55					
					260.75					
					509.41					
	22			27	550.50					
	23				703.1					
				29	249.40					
					137.70					
			Pay due	99	1627.26					
	25		bad	30	115.43					
					75.1					
				31	216.70					
					790261.66					
					170301.61					

79301.66

New Buildings

July	5	3	Bureau	55370295.56	July	5	by Petty (Bureau)	100	145.26	
	31		by Petty (Bureau)	100	313.20.33	July	4	by Petty (Bureau)	113	370.00
				244.11.51						
Aug	9		by Petty (Bureau)	100	11110.35	July	17	by Petty (Bureau)	113	114.22.78
	11		by Petty (Bureau)	112	494.34	July	2	by Petty (Bureau)	113	295.62.63
	23		bad	26	500					
	25		Pay due	103	267.17					
	27		bad	36	7.55					
Sept	10		Pay due	103	267.17					
			bad	50	49.50					
					2000					
					59	24				
	10		by Petty (Bureau)	106	819.09					
	19		bad	39	290.95					
				47	90					
				2	2.16					
	20		Pay due	107	527.19					
	27		by Petty (Bureau)	108	24.12					
Oct	4		bad	42	49.50					
				48	40					
				45	76.67					
			Pay due	109	559.60					
	11		by Petty (Bureau)	110	1204.33					
	22		Pay due	111	381.76					
Nov	1		bad	112	762.29					
	20		bad	50	50					
					29.70					
	22		Pay due	114	1096.61					
				112	225.55					
Dec	1		bad	112	624.75					
	10		by Petty (Bureau)	116	246.14					
					231.68					
	15		bad	51	660.41					
	23		Pay due	120	643.10					
	27		by Petty (Bureau)	121	15.90					
1906	2		bad	61	294.25.57					
Jan					11.42					
	12		Pay due	124	415.09					
	14		by Petty (Bureau)		162.44					
	15		by Petty (Bureau)	125	1151.1					
			bad	62	250.1					
	21			62	74.41					
	24		Pay due	126	520.62					
			bad	64	17.62					
Feb	2			64	295.46.76					
					2.70					
					295.46.76					

1147.33

Mill Buildings

1902	Day	L	By	Barrow	1899	Jan 30	By	Barrow	1900	42563	v
		2		Barrow	55293602	13					
		10		Bar	67	21052					
		16			67	29640					
						500					
						150					
		11		By Bar	124	54913					
		13		Bar	129	19927					
		24		Bar	70	990					
		25		By Bar	29	44106					
May		13		Bar	70	25518					
		7			74	21159					
		20		By Bar	132	23481					
				Bar	133	14667					
				By Bar		4935					
		11		Bar	135	180					
Apr		11		By Bar	135	19107					
		13		Bar	139	16051					
		17		Bar	76	532					
		18			77	500					
		23		By Bar	141	26766					
		24		Bar	44	1000					
May		4		By Bar	143	17167					
		13		Bar	83	22960					
		14		By Bar	144	50					
				Bar	145	4762					
				Bar	45	51939					
						792					
		27			46	792					
		28		By Bar	147	56624					
June		2		Bar	148	17392					
		6		By Bar	149	6057					
		9		Bar	151	61251					
		11		Bar	152	92251					
		21		Bar	93	54201					
		24		By Bar	156	91751					
		25		Bar	93	942					
					55293602						
					55293602						

Store Book

1901 May	12	By Balance	2494	6554.52	1901 May	23	By Pay (Cash)	474	191
	17	Bank	2414	5155	May	2	Balance	109	1554.96
	19		2434	5651					
				14425					
	22	By (Cash)	474	9572					
	26	Bank	2434	50962					
				157					
				23655					
				776					
				7165					
				522					
				7565					
				1519					
			2455	647					
				145					
				3593					
				2201					
				12912					
				1100					
				3775					
				1303					
				675					
				4540					
				661					
				383					
	27		2474	1293					
				3954					
	30	Found by Co	474	750					
		Bank	2474	294					
				194					
				245					
				146					
				5436					
			2474	1504					
				1404					
				266					
				1534					
				639					
				4742					
				3904					
				7614					
				539					
				26536					
				185438					
May	2		253	192					
				85567					

Store Book

1901 May	2	By Balance	357	1554.96	1901 May	11	By Cash	491	1494.55
		Bank	253	35		17	Balance	160	5770.03
				1515					
				602					
				2907					
				2179					
				373					
				1250					
				16071					
				165					
				540					
				2761					
				47647					
	9	By (Cash)	451	10212					
	10	Bank	253	10472					
				1415					
				2300					
				1154					
				392					
				3575					
				525					
				3302					
				33635					
				3969					
				170					
				104					
				1934					
				116					
				10191					
				2550					
				20					
				1293					
				1945					
				1075					
	15			2450					
				5444					
				203					
	7		259	1472					
				209					
				414					
				6702					
				1617					
				351					
				162					
				1066594					

Store Record

1901			1901			
Jan	17	2, Broom	5770.63	Jan	1 of Bay View	50 10.49
		haul	257 2.50	12, Purdie	51 190.476	
			2.33	20, Broom	51 50.12.68	
	24	Bay View	49 100.43			
		haul	261 59.61			
			21.70			
			22.10			
			6.62			
			9.45			
			93.99			
			15.44			
	27		76.5			
	30		263 4.55			
			57.33			
			27.19			
			23.25			
			31.85			
			30.52			
			576			
			24.5			
			4.00			
			42.65			
Jan	5		265 46.25			
	7		5.01			
	14	Bay View	50 47.99			
		haul	265 773			
			267 54.52			
			27.72			
			24.06			
	17		47			
			269 95			
			16.20			
	19		37.24			
			6.25			
			31.59			
			3.53			
			271 2.60			
			14.14			
			162.59			
			20.96			
			13.29			
			46.92			
			10.23			
	20		2.99			
			9997.55			9997.55

Store Record

1901							
Jan	20	2, Broom	361 50.12.63	Feb	6	Bay View	52 2.25
		haul	271 13.35		9	Purdie	53 167.505
			22.74		10	Broom	52 76.00.36
			3.90				
			2.65				
			41.36				
			26.70				
			1.13				
			25.45				
			30.14				
			24.5				
			43. 1.36				
			3.32				
			11.59				
			20.16				
			273 11.05				
			50 56.26				
	24	Bay View	273 1.05				
	26	haul	6.55				
			5.40				
			94.29				
			6.22				
			275 22.64				
			1.25				
			43.77				
			4.47				
			7.66				
			36.17				
			7.45				
			277 19.50				
			5.26				
			10.01				
			33.54				
	6	Bay View	52 99.99				
	10	haul	277 29.05				
			13.91				
			279 6.15				
			5.70				
			10.5				
			29.04				
			29.2				
			5.25				
			11.45				
			1.20				
			9265.66				9265.66

Store Room

1901	10	2	Balanced	561	760856	1901	Feb	24	By Day Store	581	253
Feb	10		Bank	279	14941	Aug	1			545	215
	11			20	225				Shedder	1240	471
	12				150	7			Barand	303	642976
					599						
					1690						
					1207						
					767						
					502						
				203	441						
					514						
	13				1773						
	24		By Store	53	11020						
	31		Bank	203	19452						
Aug	1		By Store	54	14523						
	2		Bank	27	1441						
					3011						
					500						
					385						
					794						
					1200						
					441						
					313						
					21405						
					1939						
					6312						
				279	1334						
	5				2055						
	6				5494						
					903						
				291	390						
					60						
					1050						
					244						
					259						
					1424						
					4119						
					1047						
					520						
					510						
					1200						
					1475						
				293	561						
					12911						
					72915						

8439153

Store Room

1901	7	2	Balanced	512	642976	1901	Feb	24	By Day Store	564	729900
Aug	7		Bank	293	2193						
					422						
					2350						
					2400						
					6634						
					3295						
	9				205						
	12			495	300						
					130						
					214						
					1400						
					4852						
					476						
					406						
	14				990						
					60						
					5304						
				297	465						
					7033						
					344						
					1630						
					436						
					940						
					3316						
	21				850						
	22			299	5425						
					9354						
					675						
					231						
				201	122						
					270						
					410						
	23		By Store	57	10611						
	24		Bank	301	244						
					4410						
					541						
					390						
					3462						
					340						
					406						
					72						
					2294						
					666						
					729900						

729900

Store Book

1901	Aug	24	By Cash	503	7299.10	1901	Aug	10	By Sundries	59	951.47
		25	Land	503	9.10			11	By Cash	59	158.4
					1.37			24	By Sundries	565	7899.00
					1.10						
					10.20						
					47.05						
					3.03						
					3.16						
					4.20						
					2.92						
					12.66						
				503	27.59						
					20.00						
					134.94						
	29				1.4						
	30				33.20						
					1.80						
				509	22.14						
					3.30						
Sp	6			509	76.23						
	7	By Cash	509	97.25							
	12	Land	509	77.4							
					26.79						
					65.34						
					10.56						
					25.40						
					31.58						
					2.00						
					60.20						
					204.12						
				511	270.90						
					15.40						
					126.5						
					37.62						
					11.76						
					46.23						
					39.36						
					34.30						
20				513	4.00						
16	By Cash			59	95.00						
24	Land			513	3.54						
				515	6.65						
					3.90						
					20.96						
					5865.57						

5865.57

Store Book

1901	Aug	24	By Balance	5647589.06	1901	Aug	10	By Sundries	624	105.54	10
		"	Land	515	530		11	" By Cash	624	569	
		"	"	"	10		24	" Balance	566	1025471	
		26	"	"	50						
		"	"	"	17						
		"	"	"	9						
		"	"	517	25						
		"	"	"	675						
		"	"	"	2077						
		"	"	"	2542						
		"	"	"	23						
		"	"	"	163						
		"	"	"	39						
		"	"	"	374						
		"	"	"	167						
		28	"	519	960						
Aug		30	"	521	92						
		"	"	"	99						
		"	"	"	114						
		"	"	"	6						
		"	"	"	24						
		"	"	"	153						
		"	"	"	290						
		12	By Cash	634	65						
		21	Land	525	53						
		"	"	"	171						
		"	"	"	403						
		"	"	"	1245						
		"	"	"	19109						
		"	"	"	3						
		"	"	"	14						
		"	"	527	13						
		23	By Cash	634	90						
		29	Land	527	1043						
		"	"	"	12445						
		"	"	"	2203						
		"	"	"	16322						
		"	"	"	1793						
		"	"	529	75						
		"	"	"	223						
		"	"	"	390						
		"	"	"	17234						
		"	"	"	333						
		"	"	"	34470						
		"	"	"	3752						
		"	"	"	1131450						

5865.57

Shore Room

1901	29	By Balance	565.1025471	11	By Paydew	65.3115
		Land	529.2194	12	Land	66.203131
			16.44	14	Balance	569.969440
May	1		381.33.60			
			175			
			761			
			640			
			165			
			300			
			41			
			275			
			64.64			
			16.76			
6			533.992			
7			585.737			
			2495			
			5534			
			2620			
			25734			
			272			
			559			
			1372			
			665			
			7176			
8			337.25			
11	By dew		65.10267			
14	Land		347.2640			
			4000			
			1209			
			2901			
			3472			
			700			
			539.250			
			75.00			
			5151			
			294			
			2875			
			4201			
			43			
			2751			
			6212			
			507			
			3469			
			927			
			11750.65			

11750.65

Shore Room

1901	14	By Balance	566.969440	22	By Paydew	49.2257
		Land	341.110520	9	Balance	70.150
			106			
			565			
			6.50			
			955			
			92.10			
			495			
			271			
15			650.13			
23	By dew		69.4			
27	Land		44.21			
			2242			
			514			
			1792			
			345.2265			
			253.11			
			644			
			349			
30			1112.66			
			5122			
			445			
			1330			
			2553			
			6444			
			215			
			514			
			2051			
			270			
			347.153			
4			149.2244			
			976			
			25			
			133			
			40			
			1510			
			873			
			3069			
5			307.699			
9	By dew		71.9699			
	Land		507.7375			
			94.51			
			63.11			
			2079			
			12460.60			

12460.60

Store Record

1901	9	3, Basam	567	12445	72	1901	11	3, Sundine	71	13404	19
2nd	11	Good	557	2385	1901	21	3, Sundine	72	1450		
				1275	1901	3	3, Basam	79	11077	97	
				2074	56						
			553	9517							
				3600							
				425							
				2085							
				5142							
				410							
				2498							
				50							
			555	605							
				750							
				500							
				16192							
				5525							
				1617							
				1244							
				757							
				5255							
				124							
		3, Sundine	71	10451							
		Good	557	5097							
				59601							
				291							
				173							
				950							
				2447							
				5525							
				4907							
			559	5525							
				1630							
				1078							
				2009							
				707							
			567	1452	1901						
				4604							
				250							
				3132							
				4042							
				5143							
				3940							
			563	12957							
				14427	1901						

1901
3rd

Store Record

1901	8	3, Basam	567	10797	1901	10	3, Sundine	74	5925
2nd		Good	563	2093	1901	15	3, Sundine	76	4213
				5375		23	3, Sundine	77	2540
				7200		31	3, Basam	79	1460
				245					
				4975					
				1507					
			565	1071					
				308					
				1707					
				2315					
				11634					
				4619					
				17546					
				44340					
				17615					
			9	5570					
				2240					
				10049					
				205					
				501					
		3, Sundine	74	10457					
		Good	567	1225					
				3209					
				2557					
				3635					
				1550					
				1191					
			569	1400					
				64					
				4613					
				127					
				1398					
				420					
				6555					
				1078					
				1253					
				1247					
			571	5554					
			573	14500					
		3, Sundine	77	707					
		Good	573	244					
				915					
				4712					
				1324097					

1901
3rd

1324097

Store Book

Apr 2	2, Balance	169	1960.21	1960	1 of Bay Area	77	10
	Card	578	72	12	Card	16061	53
			1726	24	Card	50	72
			66	12	Card	223377	15
			1507	27	Balance	9966	11
			50541			171246	45
			2470				
			6251				
29		378	263				
46		477	96247				
			126				
			4433				
			10621				
		479	4005				
			1640				
7	Bay Area	75	19125				
15	Card	34	14545				
24	Bay Area	77	13922				
Hand	Card	345	5245				
			5400				
			602				
			13034				
			2094				
		377	5206				
			1712				
			570				
			6815				
			1403				
			450				
			950				
	Bay Area	41	13062				
21	Card	12	91				
24	Bay Area	24	15002				
27	Card	379	749				
			2696				
			1500				
			196				
			9525				
			375				
			1030				
			1535				
			125				
			9125				
		391	400				
			112579				

112579

Store Book

Apr 2	2, Balance	194645	1946	31	Bay Area	2043	12
	Card	391	370				
			1200				
			1405				
			325				
		375	490				
27	Card	124	13479				
31	Card	393	1605				
			284352				
Apr 1	2, Balance	2043	12	9	Bay Area	2043	12
	Card	1	654				
			1201				
			4214				
		2	5375				
			3044				
			4991				
7		3	941				
			2794				
			1170				
			3132				
			175				
			5401				
			3116				
		4	2760				
			7812				
			4702				
			1741				
			760				
			610				
			400				
			4420				
			559				
			2365				
9		5	16054				
			1400				
			553				
			7230				
			1420				
			4344				
			1201				
			400				
		6	610				
			9540				
			3079				
			340579				

340579

Shore Record

1892 Apr	9	3	Amg fnd	3305.14	1892 Apr	12	By	Shoreline	14	2653.90
	10		By Am	155.06		17		Shoreline	371	4725.51
			Land	6						
				232.1						
				1166.1						
				1037.1						
				3320.1						
				1070.1						
				406.1						
				620.20						
				1577.1						
				516.1						
				243.59						
				1450.1		7				
				200.1						
				1119.1						
				562.13						
				150.1						
				55.1						
				367.42						
				5243.1						
				524.1						
				759.2						
				1069.1						
				300.1						
				1144.1						
				2544.1						
				5606.1						
				5623.1						
				16.00						
				100.1						
				13706.1						
				2229.1						
				10445.1						
				3155.1						
				100.1						
				1394.1						
				1217.1						
				6000.1						
				29447.1						
				5550.1						
				5070.1						
				279.00						
				762.1						
				195.1						
				6002.51						

6002.51

Shore Record

1892 Apr	17	3	Balance	17	4005.31	1892 Apr	7	By	Amg fnd	174	1223.57
			Land	10	25.92						
					570.1						
					2613.41						
					447.1						
					4096.1						
					375.1						
					200.1						
					615.1						
					119.33						
					410.29						
					644.1						
					630.1						
					1524.1						
					9.00						
					1020.1						
					1024.1						
					5400.1						
					1123.1						
					100.1						
					754.1						
					944.1						
					163.1						
					5412.1						
					250.1						
					240.1						
					1793.1						
					449.1						
					2996.1						
					2973.1						
					294.04						
					14405.1						
					1514.1						
					10004.1						
					924.1						
					1750.1						
					14678.1						
					1409.1						
					24.1						
					1939.96						
					595.1						
					720.41						
					2296.18						
					6444.1						
					1223.57						

1223.57

Store Record

1942 May	7	3, Longford	170	7253	57	1942 May	10	of Lardner	90	27	947
		Barb	15	1154	7		12	Baranum	375	7852	59
				3485							
				50							
				1100							
				2060							
				9711							
				2695							
				750							
			16	9859							
				627							
				420							
				3400							
				513							
		Brickbury	27	2210							
		Longford	90	13210							
		Refining	91	4259							
		Barb	16	43097							
				2365							
				375							
				46945							
				1217							
				750							
				2697							
				70							
			17	2214							
				775							
				1947							
				1517							
				2050							
				1024							
				5520							
				1772							
				5162							
				160							
				400							
				160							
				465							
			10	4167							
				5960							
				1475							
				267							
				3367							
				2475							
				1044204							

1044204

Store Record

1942 May	22	2, Baranum	374	7852	59	1942 June	10	of Longford	94	1	3047
		Barb	15	335			12	of Lardner	95	1332	53
				1256			26	of Lardner	96	1	105
				9130			27	of Lardner	97	2651	97
				143							
				900							
				1069							
				2330							
				325							
				1400							
				110							
				2226							
			19	500							
				242							
				2375							
				1070							
		Longford	27	13415							
		Barb	29	20	12552						
				1960							
				2540							
				4567							
				1492							
				15215							
				24056							
				5562							
		Longford	10	94	12049						
		Barb	13	22	2045						
		Longford	20	95	78263						
		Barb	25	22	8463						
		Longford	27	96	12985						
		Barb	27	23	650						
				570							
				1030							
				3919							
				550							
				400							
				471							
				362							
				253							
				4710							
				1200							
				9447							
				1500							
				850							
				2035							
				1844522							

1844522

Stone Record

1902	June 27	By Balance	17	663197	1902	July 10	By Balance	94	264214
		bal	14	12755			By Balance	177	584360
				4025					
				7962					
				5272					
				6764					
				2341					
				1390					
				253					
				12620					
				57					
			25	2066					
				1723					
				9541					
				1407					
				390					
				975					
				775					
				960					
				216					
				13025					
				700					
				3750					
				150					
July 1	By Cash	97	175741						
10	bal	26	176141						
			4397						
			120						
			6422						
			125						
			622						
			2134						
			375						
			22244						
12			5407						
15			1135						
			620						
			1113						
			7271						
			567						
			9562						
24		24	1603						
			1690						
			11724						
			582594						

582594

Stone Record

1902	July 22	By Balance	176	584360	1902	Aug 5	By Cash	141	419191
		bal	24	199701					
				116691					
				86341					
			23	9391					
				9293					
				20445					
				1200					
				2360					
				17116					
				4142					
				390					
				3200					
				5714					
				1054					
				3750					
				5910					
				2155					
				9044					
		By Cash	99	11462					
25	bal	29	1065						
			240						
			30	3041					
				1536					
				8441					
				1324					
				1472					
				2104					
				1721					
				4725					
				329					
				7462					
				8090					
				1600					
				1137					
				253					
				4200					
				1762					
				15044					
			32	12477					
				2071					
				4126					
Aug 5			33	2214					
				1949					
				2325					
				719191					

719191

Rooster

1901	25	2, Amos feed	213.244920	Aug	2, Amos feed	179.4707073
Aug	29	baud	247.1			
	30		47			
			293			
Aug	2		253.147742			
			55			
			291			
	10		255			
			450			
			201			
			27			
			690			
			690			
	17		299			
			790			
	24		261			
			32420			
	27					
			540			
			223			
			2133			
	30					
			170			
			427			
June	7		265			
			39466			
			4613			
	14					
			276			
	17		267			
			2792			
			563			
			1350			
			3511			
			4042			
			1933			
	19					
			271			
			2155			
	20					
			720			
			63032			
	22					
			7575			
			60			
	26		25			
			5500			
July	10		279			
			5794			
	11		251			
			4150			
			3663			
			13427			
			1339			
	12					
			25			
			59060			
	21		26750			
			475			
			15159			
			15167			
Aug	2		247			
			707790			
			103			
			2707073			

2707073

Rooster

1901	2	2, Amos feed	213.244920	Aug	2, Amos feed	179.4707073
Aug	7	baud	291.1			
			34.61			
			290			
	9		293			
			6702			
			295			
			9340			
			26331			
	12					
			670			
	21		299			
			1593			
			7277			
			7529			
	22		277			
			749			
	24		301			
			532			
			114			
	25		27			
			38380			
			303			
			147			
			1010			
			1401			
	29					
			7258			
			5024			
	30					
			1176			
			307			
			271			
Sept	6		309			
			271			
	12		311			
			8340			
			1396			
			2716			
	20		313			
			1549			
			12361			
	26		317			
			320			
			240			
			6040			
			3939			
			319			
			12975			
Oct	3		321			
			2923			
			250			
			1925			
			2476			
			34329			
	5		323			
			6134			
			6229			
	15					
			6502			
			6623			
	21		325			
			7453			
			250			
			2745			
	27		327			
			11336			
			3013520			

3013520

Boaster

1901	1	2	Bacon	179	5013520	1901	15	Hammond Aug 6	174	3901
1901	1	1	land	331	174	1901	16	Hammond Aug 6	174	1200
					1994	1901	17	Hammond Aug 6	174	1200
					2070	1901	18	Hammond Aug 6	174	1200
					1133	1901	19	Hammond Aug 6	174	1200
					24419	1901	20	Hammond Aug 6	174	1200
					337	1901	21	Hammond Aug 6	174	1200
					310	1901	22	Hammond Aug 6	174	1200
					165	1901	23	Hammond Aug 6	174	1200
					116	1901	24	Hammond Aug 6	174	1200
					10	1901	25	Hammond Aug 6	174	1200
					517	1901	26	Hammond Aug 6	174	1200
					12141	1901	27	Hammond Aug 6	174	1200
					30	1901	28	Hammond Aug 6	174	1200
					764	1901	29	Hammond Aug 6	174	1200
					163	1901	30	Hammond Aug 6	174	1200
					571	1901	31	Hammond Aug 6	174	1200
					570	1901	32	Hammond Aug 6	174	1200
					42	1901	33	Hammond Aug 6	174	1200
					1696	1901	34	Hammond Aug 6	174	1200
					420	1901	35	Hammond Aug 6	174	1200
					345	1901	36	Hammond Aug 6	174	1200
					1045	1901	37	Hammond Aug 6	174	1200
					1045	1901	38	Hammond Aug 6	174	1200
					3184682	1901	39	Hammond Aug 6	174	1200
					3182751	1901	40	Hammond Aug 6	174	1200
					100	1901	41	Hammond Aug 6	174	1200
					100	1901	42	Hammond Aug 6	174	1200
					1074	1901	43	Hammond Aug 6	174	1200
					2503	1901	44	Hammond Aug 6	174	1200
					17	1901	45	Hammond Aug 6	174	1200
					17	1901	46	Hammond Aug 6	174	1200
					2010	1901	47	Hammond Aug 6	174	1200
					20	1901	48	Hammond Aug 6	174	1200
					20	1901	49	Hammond Aug 6	174	1200
					20	1901	50	Hammond Aug 6	174	1200
					20	1901	51	Hammond Aug 6	174	1200
					20	1901	52	Hammond Aug 6	174	1200
					20	1901	53	Hammond Aug 6	174	1200
					20	1901	54	Hammond Aug 6	174	1200
					20	1901	55	Hammond Aug 6	174	1200
					20	1901	56	Hammond Aug 6	174	1200
					20	1901	57	Hammond Aug 6	174	1200
					20	1901	58	Hammond Aug 6	174	1200
					20	1901	59	Hammond Aug 6	174	1200
					20	1901	60	Hammond Aug 6	174	1200
					20	1901	61	Hammond Aug 6	174	1200
					20	1901	62	Hammond Aug 6	174	1200
					20	1901	63	Hammond Aug 6	174	1200
					20	1901	64	Hammond Aug 6	174	1200
					20	1901	65	Hammond Aug 6	174	1200
					20	1901	66	Hammond Aug 6	174	1200
					20	1901	67	Hammond Aug 6	174	1200
					20	1901	68	Hammond Aug 6	174	1200
					20	1901	69	Hammond Aug 6	174	1200
					20	1901	70	Hammond Aug 6	174	1200
					20	1901	71	Hammond Aug 6	174	1200
					20	1901	72	Hammond Aug 6	174	1200
					20	1901	73	Hammond Aug 6	174	1200
					20	1901	74	Hammond Aug 6	174	1200
					20	1901	75	Hammond Aug 6	174	1200
					20	1901	76	Hammond Aug 6	174	1200
					20	1901	77	Hammond Aug 6	174	1200
					20	1901	78	Hammond Aug 6	174	1200
					20	1901	79	Hammond Aug 6	174	1200
					20	1901	80	Hammond Aug 6	174	1200
					20	1901	81	Hammond Aug 6	174	1200
					20	1901	82	Hammond Aug 6	174	1200
					20	1901	83	Hammond Aug 6	174	1200
					20	1901	84	Hammond Aug 6	174	1200
					20	1901	85	Hammond Aug 6	174	1200
					20	1901	86	Hammond Aug 6	174	1200
					20	1901	87	Hammond Aug 6	174	1200
					20	1901	88	Hammond Aug 6	174	1200
					20	1901	89	Hammond Aug 6	174	1200
					20	1901	90	Hammond Aug 6	174	1200
					20	1901	91	Hammond Aug 6	174	1200
					20	1901	92	Hammond Aug 6	174	1200
					20	1901	93	Hammond Aug 6	174	1200
					20	1901	94	Hammond Aug 6	174	1200
					20	1901	95	Hammond Aug 6	174	1200
					20	1901	96	Hammond Aug 6	174	1200
					20	1901	97	Hammond Aug 6	174	1200
					20	1901	98	Hammond Aug 6	174	1200
					20	1901	99	Hammond Aug 6	174	1200
					20	1901	100	Hammond Aug 6	174	1200

Co147 20770 1-55
147 30000 1-05

Cement, ap

1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100																																																																														
Jan	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25

Bills Payable

1902	June 25	To Cash	22	465.57	1902	June 31	By Cash	1	577.40	15
July 17			27	250.74	July 30			2	507.74	42
21				125.12	Aug 31			3	99.25	56
				532.74	July 31			4	95.76	99
				245.94	Aug 30			5	71.11	69
23	Chenier	99	253.93	Aug 30				6	69.41	29
25	Cash	29	346.42	Aug 31				7	77.11	69
				213.70						
25			31	125.00						
30	Eastman & Co.	100	111.15							
31	Cash	32	125.00							
Aug 6	W. H. Thompson	10	125.00							
	Cash	33	215.05							
4			109.39							
14			222.06							
			75.00							
25	Eastman & Co.	102	76.49							
27	Cash	36	5.00							
30	Chenier	100	125.00							
6	Cash	37	5.00							
12		39	125.00							
17			5.00							
17	W. H. Thompson	107	6.00							
22	Chenier & Co.	100	125.00							
24	Cash	41	6.00							
27	Amie & Co.	100	16.29							
29	Cash	43	40.69							
			125.00							
30			63.15							
12	W. H. Thompson	102	147.00							
3	Cash	44	159.27							
11			41.12							
14			73.61							
23			40.12							
			75.00							
24	Eastman & Co.	110	110.44							
	Cash	49	15.12							
30	Chenier & Co.	112	13.13							
19	Cash	50	357.64							
21			155.00							
25			51.36							
			142.13							
			4482.17							

7742.46

Bills Payable

1902	May	25	To Cash paid	14632.00	1902	May	25	By Cash paid	34	5726.47
		25	" " "	5142.50			29	" " "	1	503.47
		29	" " "	11866.85	June		1	" " "	117	1250.72
			" " "	1122.62			31	" " "	9	147.52
			" " "	11320.62	July		31	" " "	10	1250.72
June		3	To Cash paid	1250.72						
		5	" " "	1250.72						
		7	" " "	1500.72						
		8	" " "	106.15						
		15	" " "	11912.00						
		17	" " "	51						
			" " "	500.00						
			" " "	500.00						
		20	" " "	500.00						
		23	" " "	12110.42						
		24	" " "	50						
		26	" " "	520.25						
			" " "	500.00						
		31	" " "	12175.00						
1903	July	3	" " "	50						
		7	" " "	500.00						
		9	" " "	12350.00						
		10	" " "	50						
		15	" " "	12312.50						
		20	" " "	12412.45						
		23	" " "	12450.00						
		24	" " "	50						
		29	" " "	110.15						
			" " "	1250.00						
		30	" " "	67.15						
July		3	" " "	12717.50						
		6	" " "	50						
		11	" " "	25.00						
		19	" " "	69						
		24	" " "	70						
			" " "	1250.00						
			" " "	750.00						
		24	" " "	645.31						
		25	" " "	72						
			" " "	63.32						
		3	" " "	750.00						
Aug		3	" " "	73						
		12	" " "	44.07						
		20	" " "	500.00						
			" " "	1907.26						

342

1104.22

Orange Office

1901	12	3	Am. fed	25	2049.10	Aug	27	3	Am. fed	27	1425
July	1		bal	253	470	Aug	31		bal	31	23614.02
	21				70.65						
					47.43						
Aug	1			27	416.66						
	3			27	1.00						
					75.00						
	6			29	12.65						
	7				1.06						
				293	4.00						
	9				50.43						
					50.42						
	11			27	58.43						
				27	50.42						
					53.93						
	14			301	19.45						
	15			303	2.75						
	19			305	9.76						
					46.92						
					416.66						
Sept	6			309	75.00						
	20			313	46.93						
					53.93						
					46.93						
	24				2.96						
				315	7.05						
					2.4						
	26			317	14.61						
					10.42						
Oct	30			319	416.66						
	3			321	4.00						
				323	75.00						
	5				44.59						
					42.50						
	15				60.00						
					77.50						
	21			325	40.00						
					50.50						
					71.44						
					14.72						
	29			327	4.02						
				329	2.50						
					21.90						
					416.66						
	31				24632.50						

25652.50

Orange Office

1901	1	3	Balance	311	23614.02	1902	14	3	bal	335	4470
Nov			bal	331	525	Nov	14		bal	335	26041.63
				333	75.00						
	6				50.50						
					67.05						
	7			335	7.60						
					1.96						
					23.424						
					74.77						
				337	66.46						
	14				29.75						
					44.70						
				339	4.20						
					4.25						
				341	7.00						
	15				1.06						
					3.50						
					3.29						
	17			343	75.42						
	18				59.73						
	20			345	416.66						
					75.00						
					10.00						
Dec	4			349	4.44						
					5.00						
					2.00						
					3.22						
					4.45						
					2.69						
	5			351	67.02						
	11				4.25						
				353	9.75						
					17.54						
	13				174.54						
					62.46						
					60.48						
	24			357	60.44						
					58.07						
	28				416.66						
1902	1			361	75.00						
Jan					1.50						
	6			363	59.61						
	9			367	1.75						
	14			367	3.20						
					26046.08						

26046.08

Orange Office

Month	Day	Description	Dr.	Cr.	Balance
Apr	14	Bureau	577 25 69	63	
May	17	Bank	569	2 15	579 40 84
	17		471	65 97	
				54 50	
				119 70	
	22		473	54 50	
	29		475	54 50	
				13 50	
				2 5	
	31			416 66	
May	1		477	19 44	
	5			75 00	
	7		479	54 50	
				56 00	
	27		484	54 50	
				54 50	
			483	75 00	
				416 66	
June	7		484	8 00	
				27 5	
	15		479	54 50	
				54 50	
				70 64	
	27		489	18 95	
	27		491	3 50	
				2 5	
				170	
	31		492	54 50	
				54 50	
			499 49 25		
Apr	1	Bureau	279 67 74		
	2	Bank	1	75 00	
	2			416 66	
	2			117 95	
				54 50	
	2			54 50	
	4			2 50	
				5 00	
	5			2 50	
	9			3 50	
				4 20	
				5 25	
	10			1 00	
	7			12 50	
			279 66 69		

Orange Office

Month	Day	Description	Dr.	Cr.	Balance
Apr	10	Comp. for	54 27 56 69		
	11	Bank	7	4 25	
				13 21	
				47 50	
	21			27 50	
				5 00	
				67 1	
				270	
	24		124	8 22	
				54 50	
				57 50	
	26		13	53 95	
				44 25	
	30		14	416 66	
				75 00	
May	22		14	25 50	
	24		19	56 66	
				57 50	
				57 00	
June	7		21	416 66	
				75 00	
				56 50	
				57 50	
	13		22	64 20	
				113 96	
	17			12	
	27		23	4 20	
			25	17 5	
July	3		26	55 00	
	10			3 40	
	12		27	416 66	
	15			10 00	
	22		24	47 50	
	23		29	2 00	
	25			57 50	
				57 50	
	30			57 50	
			31	57 50	
Aug	5			2 50	
				3 00	
				17 00	
				64	
			31 409 69		

Orange Office

1902	Aug	3	2y	Ameyford	519,340.69	1912	Aug	7	2y	Belmont Church	1001	5.00
				bank	33					bank	48	1.45
					54					bank	48	1.45
					75.00	Dec	19			Belmont	39,341.86	99
					10.12							
					36							
					57.50							
					57.50							
					57.50							
					116.46							
					39							
					57.50							
					57.50							
					19							
					40							
					2.96							
					1.00							
					13.54							
					57.50							
					57.50							
					57.50							
					55.50							
					43							
					65.00							
					59.75							
					72.20							
					44							
					57.50							
					4.75							
					16.50							
					48							
					2.4							
					46							
					21.60							
					47							
					23.40							
					5.15							
					2.20							
					44							
					75.00							
					47							
					6.00							
					50							
					157.50							
					60.64							
					57.50							
					57							
					52.00							
					99.44							
					416.66							
					10.00							
					336							
					7.55							
					8.00							
					58							
					1.54							
					57							
					416.66							
					15							
					25.00							
					19							
					52.00							
					341.37							
					341.37							

236,520.69
256,66.24

341.3744

Orange Office

1902	1902	1902	1902	1902	1902		
Dec 19	2y	Batman	390 340.89	Jan 50	2y	Bat 2	19,570 05
		bank	57				
			53.50				
			52.50				
			52.50				
			51.42				
			75.00				
			75.00				
			59				
			15.96				
			1.50				
			19.90				
			3.25				
1902	23	W. Manning	121				
Jan 16		bank	353.33				
			57.00				
			4.00				
			9.64				
			60				
			52.25				
2y	7		66				
	16		69				
			52.50				
			75.00				
			70				
			3.20				
			71				
			8.00				
			11				
			180				
			122				
			306.96				
			74				
			61.69				
			112				
			2.00				
			77				
			100.00				
			144				
			14				
			1.20				
			149				
			100.43				
			150				
			397.40				
			17				
			500.00				
			69				
			253.73				
			20.24				
			17				
			153				
			69.44				
			19				
			92				
			2.00				
			23				
			155				
			395.00				

395.0005

Price Machinery

1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2423	2424	2425	2426	2427	2428	2429	2430	2431	2432	2433	2434	2435	2436	2437	2438	2439	2440	2441	2442	2443	2444	2445	2446	2447	2448	2449	2450	2451	2452	2453	2454	2455	2456	2457	2458	2459	2460	2461	2462	2463	2464	2465	2466	2467	2468	2469	2470	2471	2472	2473	2474	2475	2476	2477	2478	2479	2480	2481	2482	2483	2484	2485	2486	2487	2488	2489	2490	2491	2492	2493	2494	2495	2496	2497	2498	2499	2500	2501	2502	2503	2504	2505	2506	2507	2508	2509	2510	2511	2512	2513	2514	2515	2516	2517	2518	2519	2520	2521	2522	2523	2524	2525	2526	2527	2528	2529	2530	2531	2532	2533	2534	2535	2536	2537	2538	2539	2540	2541	2542	2543	2544	2545	2546	2547	2548	2549	2550	2551	2552	2553	2554	2555	2556	2557	2558	2559	2560	2561	2562	2563	2564	2565	2566	2567	2568	2569	2570	2571	2572	2573	2574	2575	2576	2577	2578	2579	2580	2581	2582	2583	2584	2585	2586	2587	2588	2589	2590	2591	2592	2593	2594	2595	2596	2597	2598	2599	2600	2601	2602	2603	2604	2605	2606	2607	2608	2609	2610	2611	2612	2613	2614	2615	2616	2617	2618	2619	2620	2621	2622	2623	2624	2625	2626	2627	2628	2629	2630	2631	2632	2633	2634	2635	2636	2637	2638	2639	2640	2641	2642	2643	2644	2645	2646	2647	2648	2649	2650	2651	2652	2653	2654	2655	2656	2657	2658	2659	2660	2661	2662	2663	2664	2665	2666	2667	2668	2669	2670	2671	2672	2673	2674	2675	2676	2677	2678	2679	2680	2681	2682	2683	2684	2685	2686	2687	2688	2689	2690	2691	2692	2693	2694	2695	2696	2697	2698	2699	2700	2701	2702	2703	2704	2705	2706	2707	2708	2709	2710	2711	2712	2713	2714	2715	2716	2717	2718	2719	2720	2721	2722	2723	2724	2725	2726	2727	2728	2729	2730	2731	2732	2733	2734	2735	2736	2737	2738	2739	2740	2741	2742	2743	2744	2745	2746	2747	2748	2749	2750	2751	2752	2753	2754	2755	2756	2757	2758	2759	2760	2761	2762	2763	2764	2765	2766	2767	2768	2769	2770	2771	2772	2773	2774	2775	2776	2777	2778	2779	2780	2781	2782	2783	2784	2785	2786	2787	2788	2789	2790	2791	2792	2793	2794	2795	2796	2797	2798	2799	2800	2801	2802	2803	2804	2805	2806	2807	2808	2809	2810	2811	2812	2813	2814	2815	2816	2817	2818	2819	2820	2821	2822	2823	2824	2825	2826	2827	2828	2829	2830	2831	2832	2833	2834	2835	2836	2837	2838	2839	2840	2841	2842	2843	2844	2845	2846	2847	2848	2849	2850	2851	2852	2853	2854	2855	2856	2857	2858	2859	2860	2861	2862	2863	2864	2865	2866	2867	2868	2869	2870	2871	2872	2873	2874	2875	2876	2877	2878	2879	2880	2881	2882	2883	2884	2885	2886	2887	2888	2889	2890	2891	2892	2893	2894	2895	2896	2897	2898	2899	2900	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Price Machinery

[illegible]

Price Machinery

1901 Jan	2	By Balance	1902 Jan	10	By Pay chd	170
			29	By Balance	477	22497 95
		191 290 15 10				
		365 2424				
		3140				
	9	367 29000				
		400				
		10				
		445				
		150				
		269				
		2909 62				
	10	By chd				
	14	bal				
		367 61 54				
		6240				
		273				
		21146				
		369 359				
		40475				
		11693				
		1950				
		32935				
		6976				
		2533				
		1497				
		222				
		534				
		371 513700				
		2106599				
	15	Shut down				
	17	bal				
		171 7646				
		5926				
		2319550				
		11680				
		1934				
		173 6974				
	13	By chd				
	14	bal				
		77 446164				
		24000 65				
		82522				
		9722				
		1914				
		20677				
		175 9713				
		17				
		443				
		4120985				
		22499 65				

22499 65

Price Machinery

1901 Jan	29	By Balance	1902 Jan	31	By chd	9479
			29	By chd	77	365
		191 22497 95				
		375 2351132				
		51373				
		3243700				
	1	57 1795				
		26720				
		14297				
		24260				
		6916				
		477				
		1024				
		399 3910				
		3045				
		5313				
		5720				
		1613				
		7920				
	5	By chd				
	12	Shut down				
	15	bal				
		34 27500				
		5037				
		42579				
		599				
		1216				
		58496				
	24	By chd				
	27	bal				
		34 5493 61				
		30446 1833				
		8641				
		18200				
		55525				
		16767 60				
		85207				
		2112519				
		125				
		2413				
		292				
		912				
		1023				
		1249				
		15994				
		34556				
		13970				
		10743				
		425				
		19344				
		27234 07				

27234 07

Misc Machinery

1902				1902			
May 7	By Balance	111	52451.07	May 7	By Balance	191	2210
	Do	16	16155	June 7	Balance	413	344726.20
			5677				
			28429				
			345				
			3464				
9	By Cash	90	5827.46				
10	By Cash		640.82				
21	By Cash	91	585.44				
	Do	16	584.66				
			53589				
		17	12071				
			1191				
			35534				
			1340				
			155				
			2816				
12		16	2350				
			760				
			1296				
			125				
			6500				
			177				
			1477				
			311				
		17	1965				
			2471				
			5159				
24			2169				
			2400				
			2571				
			592				
			16050				
17	By Cash	91	5241.74				
19	By Cash	90	4628.84				
	Do	20	2190				
			2442				
			6570				
			347				
			1791				
June 7		25	4700				
			771				
			1371				
			3300				
			344726.20				

Misc Machinery

1902				1902			
June 7	By Balance	102	344726.20	June 10	By Cash	94	400
	Do	21	12570	July 10	By Cash	410	333497.44
			2312				
10	By Cash	94	5321.10				
12	By Cash	95	968.50				
13	Do	22	1429				
			5455				
			4307				
15			81709.12				
20	By Cash	95	47792				
25	Do	22	1093				
	By Cash	96	5055.56				
27	Do	23	1775				
			1055				
			1615				
			225				
			1179				
			109				
			4600				
			124				
			3210				
		24	166				
			6556				
			4910				
			2473				
			34353				
			1216				
			8900				
			239				
			4635				
		25	16963				
27			24730				
			149				
			14239				
			5437				
			940				
	By Cash	97	4443.31				
30	By Cash	98	576.02				
July 1	By Cash	97	4745.07				
3	By Cash	98	1256.60				
10	By Cash		1134.93				
	Do	26	2643				
			4130				
			264				
			333497.44				

Dipping No 7

1901	23	3. Batumi	91.4539	55.4100	30174.46
1902	1	bad	57.1	19.55	
2	1	bad	36.1	10.20	
3	1	bad	36.1	16.90	
4	1	bad	36.1	19.4	
5	1	bad	16.72		
6	1	bad	5.95		
7	1	Donaustrasse B.	74.7044	62	
8	1	bad	74.2041		
9	1	Donaustrasse	74.44.62		
10	1	bad	37.1	3.96	
11	1	bad	4.40		
12	1	bad	77.92.41		
13	1	bad	74.55.41	53	
14	1	bad	77.1	20	
15	1	bad	190		
16	1	bad	77.1	60	
17	1	bad	2.64		
18	1	bad	74.343.54		
19	1	Donaustrasse	79.15.95.57		
20	1	bad	34.13.11		
21	1	bad	41.515.51		
22	1	bad	34.37.44.51		
23	1	bad	34.7.19.92		
24	1	bad	34.7.19.92		
25	1	bad	41.55.90		
26	1	Donaustrasse	42.173.44		
27	1	bad	34.7.92		
28	1	bad	43.51.42		
29	1	bad	14.09.70		
30	1	bad	39.26.45		
31	1	bad	30174.46		
32	1	bad	30174.46		
33	1	bad	30174.46		
34	1	bad	30174.46		
35	1	bad	30174.46		
36	1	bad	30174.46		
37	1	bad	30174.46		
38	1	bad	30174.46		
39	1	bad	30174.46		
40	1	bad	30174.46		
41	1	bad	30174.46		
42	1	bad	30174.46		
43	1	bad	30174.46		
44	1	bad	30174.46		
45	1	bad	30174.46		
46	1	bad	30174.46		
47	1	bad	30174.46		
48	1	bad	30174.46		
49	1	bad	30174.46		
50	1	bad	30174.46		
51	1	bad	30174.46		
52	1	bad	30174.46		
53	1	bad	30174.46		
54	1	bad	30174.46		
55	1	bad	30174.46		
56	1	bad	30174.46		
57	1	bad	30174.46		
58	1	bad	30174.46		
59	1	bad	30174.46		
60	1	bad	30174.46		
61	1	bad	30174.46		
62	1	bad	30174.46		
63	1	bad	30174.46		
64	1	bad	30174.46		
65	1	bad	30174.46		
66	1	bad	30174.46		
67	1	bad	30174.46		
68	1	bad	30174.46		
69	1	bad	30174.46		
70	1	bad	30174.46		
71	1	bad	30174.46		
72	1	bad	30174.46		
73	1	bad	30174.46		
74	1	bad	30174.46		
75	1	bad	30174.46		
76	1	bad	30174.46		
77	1	bad	30174.46		
78	1	bad	30174.46		
79	1	bad	30174.46		
80	1	bad	30174.46		
81	1	bad	30174.46		
82	1	bad	30174.46		
83	1	bad	30174.46		
84	1	bad	30174.46		
85	1	bad	30174.46		
86	1	bad	30174.46		
87	1	bad	30174.46		
88	1	bad	30174.46		
89	1	bad	30174.46		
90	1	bad	30174.46		
91	1	bad	30174.46		
92	1	bad	30174.46		
93	1	bad	30174.46		
94	1	bad	30174.46		
95	1	bad	30174.46		
96	1	bad	30174.46		
97	1	bad	30174.46		
98	1	bad	30174.46		
99	1	bad	30174.46		
100	1	bad	30174.46		

Dipping No 7

1901	12	Amz fed	101.3779	23	1902	22	bad	12	4.27
1902	21	bad	11.12.00	100	21	Donaustrasse	91.42.39		
22	1	bad	13.39	100	22	Bahnhof	91.42.39		
23	1	Amz Amz	17.69.72	100			91.42.39		
24	1	bad	13.4	100			91.42.39		
25	1	bad	14.1	100			91.42.39		
26	1	bad	15.32	100			91.42.39		
27	1	bad	16.1	100			91.42.39		
28	1	Amz Amz	17.69.72	100			91.42.39		
29	1	Donaustrasse	18.1	100			91.42.39		
30	1	bad	19.1	100			91.42.39		
31	1	bad	20.1	100			91.42.39		
32	1	bad	21.1	100			91.42.39		
33	1	bad	22.1	100			91.42.39		
34	1	bad	23.1	100			91.42.39		
35	1	bad	24.1	100			91.42.39		
36	1	Amz Amz	25.1	100			91.42.39		
37	1	Donaustrasse	26.1	100			91.42.39		
38	1	bad	27.1	100			91.42.39		
39	1	bad	28.1	100			91.42.39		
40	1	bad	29.1	100			91.42.39		
41	1	bad	30.1	100			91.42.39		
42	1	bad	31.1	100			91.42.39		
43	1	bad	32.1	100			91.42.39		
44	1	bad	33.1	100			91.42.39		
45	1	bad	34.1	100			91.42.39		
46	1	bad	35.1	100			91.42.39		
47	1	bad	36.1	100			91.42.39		
48	1	bad	37.1	100			91.42.39		
49	1	bad	38.1	100			91.42.39		
50	1	bad	39.1	100			91.42.39		
51	1	bad	40.1	100			91.42.39		
52	1	bad	41.1	100			91.42.39		
53	1	bad	42.1	100			91.42.39		
54	1	bad	43.1	100			91.42.39		
55	1	bad	44.1	100			91.42.39		
56	1	bad	45.1	100			91.42.39		
57	1	bad	46.1	100			91.42.39		
58	1	bad	47.1	100			91.42.39		
59	1	bad	48.1	100			91.42.39		
60	1	bad	49.1	100			91.42.39		
61	1	bad	50.1	100			91.42.39		
62	1	bad	51.1	100			91.42.39		
63	1	bad	52.1	100			91.42.39		
64	1	bad	53.1	100			91.42.39		
65	1	bad	54.1	100			91.42.39		
66	1	bad	55.1	100			91.42.39		
67	1	bad	56.1	100			91.42.39		
68	1	bad	57.1	100			91.42.39		
69	1	bad	58.1	100			91.42.39		
70	1	bad	59.1	100			91.42.39		
71	1	bad	60.1	100			91.42.39		
72	1	bad	61.1	100			91.42.39		
73	1	bad	62.1	100			91.42.39		
74	1	bad	63.1	100			91.42.39		
75	1	bad	64.1	100			91.42.39		
76	1	bad	65.1	100			91.42.39		
77	1	bad	66.1	100			91.42.39		
78	1	bad	67.1	100			91.42.39		
79	1	bad	68.1	100			91.42.39		
80	1	bad	69.1	100			91.42.39		
81	1	bad	70.1	100			91.42.39		
82	1	bad	71.1	100			91.42.39		
83	1	bad	72.1	100			91.42.39		
84	1	bad	73.1	100			91.42.39		
85	1	bad	74.1	100			91.42.39		
86	1	bad	75.1	100			91.42.39		
87	1	bad	76.1	100			91.42.39		
88	1	bad	77.1	100			91.42.39		
89	1	bad	78.1	100			91.42.39		
90	1	bad	79.1	100			91.42.39		
91	1	bad	80.1	100			91.42.39		
92	1	bad	81.1	100			91.42.39		
93	1	bad	82.1	100			91.42.39		
94	1	bad	83.1	100			91.42.39		
95	1	bad	84.1	100			91.42.39		
96	1	bad	85.1	100			91.42.39		
97	1	bad	86.1	100			91.42.39		
98	1	bad	87.1	100			91.42.39		
99	1	bad	88.1	100			91.42.39		
100	1	bad	89.1	100			91.42.39		

Insurance

Mar 3	Balance	944039.67	May 24	By Cash	500	8.50
" 24	Cash	100	" 31	Balance	4056.35	
" 27		371.16				
" 28		1500				
		4065.85			4065.85	
Apr 1	By Balance	4056.35	25	By Drawing by	500	
" 4	Cash	500	" 30	Cash	500	
" 10		1000	June 10		13.50	
" 10		4071.35	Aug 6		50.00	
" 10		7.50	Oct 11		15.00	
" 10		13.50	Oct 14		2.50	
May 7		150	Oct 14		461	8.50
June 8	By Drawing by	941561.84	" 25		491	32.50
" 16	Cash	22.13.50	June 12		500	13.50
" 16		26.32.50	July 17		601	15.00
" 15		27.13.50	Oct 30		41	6.50
" 23		29.53.02	Nov 16		12	14.50
Aug 5		34.62.75	June 27		95	14.50
" 6		34.55.00	" 30	Cash to	30	147.62.50
" 11		39.49				
" 11		7.00				
Oct 7		43.62.50				
" 10		44.14.00				
" 16		46.6.00				
" 27		47.72.19				
" 30		52.50				
Dec 12		56.60.35				
Feb 16		62.133.50				
" 11		67.134.00				
" 11		67.49.50				
" 17		69.21.73				
" 17		69.16.50				
Apr 23		79.75.50				
" 25		61.6.00				
May 14		14.70.54.73				
" 15		52.00				
" 15		15.00				
" 21		131.44				
June 10		147.14.50				
" 19		49.63.50				
" 19		90.143.20				
" 27		91.131.67				
" 27		2.00				
		9124.23			9124.23	

Electric Plant

Year	Day	Time	Lat	Long	Alt	Wind	Temp	Bar	Hum	Cloud	Remarks
1902	24	Aug	17	45	64						
			15	26	39						
			17	16	17						
			13	53	64						
			14	19	50						
			14	9	62						
				23	36						
			15	54	55						
			16	65	79						
				45	29						
			90	17	10						
				36	72						
			16	56	74						
				53	06						
			17	26	67						
				3	11						
				47							
				79	5						
				126	00						
				69	13						
			14	27	00						
			19	6	94						
				6	50						
				53	10						
				6	91						
				18	29						
				59	40						
			91	17	49						
			20	13	97						
				6	45						
				22	01						
			24	3	55						
				2	43						
				24	74						
			90	22	04						
			75	57	02						
			22	26	12						
				9	5						
			22	56	0						
			95	13	55						
				10	42						
			22	4	47						
			96	19	45						
			23	2	60						
				6	50						
				60	59						
				60	59						

Electric Plant

1902		1901		1901		1901	
June	July	Aug	Sept	Oct	Nov	Dec	Total
	3	Amby ford	116	60592	17	Amby ford	116
		baal	20	345			66240.55
			24	1261			
				29100			
				2017			
			25	3071			
				510			
				6996			
				9671			
				1545			
July	1	Amby ford	97	11173	12		
	10	baal	904	17207			
			26	6743			
				1040			
				10257			
				1190			
				351			
				15120			
	12			122137			
			27	25504			
	15			15040			
	22		24	24004			
				3361			
				21			
				8657			
	28			12201			
				263			
			29	37001			
			31	90370			
Aug	1	baal	29	2501			
				3600			
			30	5643			
				5907			
				2167			
				4641			
				26301			
			31	2501			
				10601			
				144961			
	29			246001			
				173001			
				16401			
				97201			
				24601			
				66240.55			

Electric Plant

1911 July			1912 Aug			1912 Aug
29	By Amos paid	417 621535	12	By bond	54 123000	
"	" bond	51 2540	"	" " " "	103 71073	
"	"	690	"	" " " "	54 10030	
"	"	32 551	"	" " " "	419 696632	
5	"	2162				
"	"	765				
"	"	3065				
"	"	5265				
"	"	2013				
"	"	2945				
"	"	401				
9	By Amos	101 79734				
11	By Amos	102 10762				
20	By Amos	9 157225				
21	By Amos	24 227				
23	By Amos	35 560				
"	"	115				
"	"	650				
"	"	246				
25	By Amos	104 53795				
26	By Amos	35 105				
27	By Amos	36 996				
"	"	132				
"	"	340				
30	By Amos	105 194940				
"	"	170				
"	"	105 28754				
"	"	54 155				
"	"	1940				
"	"	650				
"	"	74				
39	By Amos	29 297				
10	By Amos	106 16023				
16	By Amos	39 434				
19	By Amos	40 24510				
"	"	146				
"	"	2240				
"	"	41 6352				
"	"	134				
"	"	5103				
"	"	360				
"	"	4522				
"	"	390				
20	By Amos	107 44716				
"	"	120753				
2	By Amos	42 2120235				

7120235

Electric Plant

1912 Aug			1912 Aug			1912 Aug
2	By Amos	418 8916132	6	By Amos paid	420 7305474	
4	By Amos	42 1940				
"	"	769				
"	"	43 855				
"	"	540				
7	By Amos	10220				
"	"	44 1334				
"	"	219				
"	"	2642				
"	"	21397				
"	"	20115				
"	"	8494				
"	"	45 5216				
"	"	3900				
"	"	10139				
"	"	26474				
"	"	670				
"	"	470				
"	By Amos	109 45501				
11	By Amos	110 54619				
21	By Amos	46 150				
27	By Amos	47 6650				
"	"	200				
"	"	7044				
"	"	295				
"	"	4472				
"	"	45 105				
22	By Amos	111 46493				
24	By Amos	48 146				
27	By Amos	49 13114				
"	"	461				
"	"	1999				
30	By Amos	112 44574				
20	By Amos	50 767				
28	By Amos	51 1752				
22	By Amos	114 40544				
24	By Amos	51 135				
"	"	1373				
29	By Amos	52 744				
30	By Amos	53 730305				
"	"	9401				
"	"	1021				
"	"	1441				
"	"	2054				
"	"	7305746				

7305746

Sales Department

1922	June 30	By Cash	25	333.33	1922	June 30	By Cash	2	3652.50
July 1			26	309.50					
Aug 5			34	333.33					
				407.50					
Oct 1			39	333.33					
				67.15					
Nov 15			41	136.50					
Dec 5			50	395.00					
Dec 13			57	357.53					
Feb 7			66	367.50					
Apr 1			76	351.53					
Jun 15			77	366.40					
Jul 5			77	335.33					
				3652.50					3652.50

Electric Plant

1923	Apr 23	By Balance	42	5554.14
		By Cash	77	9.26
			77	5.44
				11.97
				1.94
			79	31.92
				6.24
			10	2.57
				5.33
				10.05
		By Cash	141	432.79
		By Cash	14	5.00
				5.00
			27	5.00
			1	220.50
				141.70
				6.31
		By Cash	142	612.32
		By Cash		344.13
		By Cash	11	1.60
			12	22.40
			11	41.00
			10	38.34
				13.44
			13	14.53
				42.05
		By Cash	145	367.35
		By Cash	14	1.10
				56.20
				6.17
				63.91
				42.60
				4.24
			15	112.50
				5.00
				5.94
			16	7.77
				5.55
				5.94
		By Cash	147	392.39
		By Cash	147	670.60
		By Cash	67	112.75
				16.68
		By Cash	149	649.51
		By Cash	150	191.20
		By Cash		520.44
				60.16

Electricity

1923			1923		
Jan	2, Am. Prod	423 16015 75	Jan 23	2, Schuler, H.	1554 879 64 1
9	Bay River	154 657 61	50	Bay 22	1110045 75 0
10	Bay	77 772 1			
		15 137 2			
		4 400 1			
		3 21 1			
		53 02 4			
		14 234 00 1			
		3 37 1			
		11 67 1			
11		2 10 1			
10		11 67 1			
11		3 20 1			
	Am. Prod	1522 16106 1			
17	1st Street	153 415 05 1			
18	Edmund St. 73	141127 57 1			
19	Bay	90 250 1			
		255 00 1			
		257 54 1			
		6 05 1			
		14 19 1			
		19 51 1			
		91 37 59 1			
		126 16 1			
		3 22 1			
		176 1			
		3 5 1			
		92 264 00 1			
		123 1			
		20 16 1			
		122 1			
		73 264 1			
		64 38 1			
23	Bay 6	144 356 25 1			
	Bay 24	150 13 51 1			
	Schuler, H.	155 131 62 1			
24	Bay River	156 852 63 1			
25	Bay	93 52 23 1			
19		131066 46			

131066 46

Steel Machinery

Year	Month	Day	Item	Price	Year	Month	Day	Item	Price
19	3		Barren	41147163 H	1974	11	75	Barren	1175
"	"	"	Bar	41 57 21	"	"	"	Bar	570
"	"	"	"	241	"	"	"	Bar	1745
"	"	"	"	571	"	"	"	Bar	46 10231
20	"	"	Bar	107 1202430	"	"	"	Bar	1104 2900
27	"	"	Bar	104 1607	"	"	"	Bar	1114 124
"	"	"	Bar	422 1799	"	"	"	Bar	422 1799
"	"	"	"	7660	"	"	"	Bar	422 1799
"	"	"	"	5765	"	"	"	Bar	422 1799
"	"	"	"	2169	"	"	"	Bar	422 1799
"	"	"	"	6157	"	"	"	Bar	422 1799
"	"	"	"	1095	"	"	"	Bar	422 1799
"	"	"	"	0242	"	"	"	Bar	422 1799
"	"	"	"	1060	"	"	"	Bar	422 1799
"	"	"	"	5474	"	"	"	Bar	422 1799
"	"	"	"	5795	"	"	"	Bar	422 1799
"	"	"	"	14040	"	"	"	Bar	422 1799
"	"	"	"	5400	"	"	"	Bar	422 1799
"	"	"	"	5185	"	"	"	Bar	422 1799
"	"	"	"	600	"	"	"	Bar	422 1799
"	"	"	"	225	"	"	"	Bar	422 1799
"	"	"	"	600	"	"	"	Bar	422 1799
"	"	"	"	204	"	"	"	Bar	422 1799
"	"	"	"	22657	"	"	"	Bar	422 1799
"	"	"	"	7406	"	"	"	Bar	422 1799
"	"	"	"	5259	"	"	"	Bar	422 1799
"	"	"	"	204	"	"	"	Bar	422 1799
"	"	"	"	24246	"	"	"	Bar	422 1799
"	"	"	"	5250	"	"	"	Bar	422 1799
"	"	"	"	500	"	"	"	Bar	422 1799
"	"	"	"	45 1346	"	"	"	Bar	422 1799
"	"	"	"	46 125	"	"	"	Bar	422 1799
"	"	"	"	46 125	"	"	"	Bar	422 1799
"	"	"	Bar	1094 29212	"	"	"	Bar	422 1799
"	"	"	Bar	1104 141467	"	"	"	Bar	422 1799
"	"	"	Bar	46 140	"	"	"	Bar	422 1799
"	"	"	"	392	"	"	"	Bar	422 1799
"	"	"	"	47 1500	"	"	"	Bar	422 1799
"	"	"	"	360	"	"	"	Bar	422 1799
"	"	"	"	1540	"	"	"	Bar	422 1799
"	"	"	"	150	"	"	"	Bar	422 1799
"	"	"	"	219	"	"	"	Bar	422 1799
"	"	"	Bar	1114 519645	"	"	"	Bar	422 1799
"	"	"	Bar	40 2730	"	"	"	Bar	422 1799
"	"	"	"	4295410	"	"	"	Bar	422 1799

4295410

Steel Machinery

Year	Month	Day	Item	Price	Year	Month	Day	Item	Price
19	3		Barren	41147163 H	1974	11	75	Barren	1175
"	"	"	Bar	41 57 21	"	"	"	Bar	570
"	"	"	"	241	"	"	"	Bar	1745
"	"	"	"	571	"	"	"	Bar	46 10231
20	"	"	Bar	107 1202430	"	"	"	Bar	1104 2900
27	"	"	Bar	104 1607	"	"	"	Bar	1114 124
"	"	"	Bar	422 1799	"	"	"	Bar	422 1799
"	"	"	"	7660	"	"	"	Bar	422 1799
"	"	"	"	5765	"	"	"	Bar	422 1799
"	"	"	"	2169	"	"	"	Bar	422 1799
"	"	"	"	6157	"	"	"	Bar	422 1799
"	"	"	"	1095	"	"	"	Bar	422 1799
"	"	"	"	0242	"	"	"	Bar	422 1799
"	"	"	"	1060	"	"	"	Bar	422 1799
"	"	"	"	5474	"	"	"	Bar	422 1799
"	"	"	"	5795	"	"	"	Bar	422 1799
"	"	"	"	14040	"	"	"	Bar	422 1799
"	"	"	"	5400	"	"	"	Bar	422 1799
"	"	"	"	5185	"	"	"	Bar	422 1799
"	"	"	"	600	"	"	"	Bar	422 1799
"	"	"	"	225	"	"	"	Bar	422 1799
"	"	"	"	600	"	"	"	Bar	422 1799
"	"	"	"	204	"	"	"	Bar	422 1799
"	"	"	"	22657	"	"	"	Bar	422 1799
"	"	"	"	7406	"	"	"	Bar	422 1799
"	"	"	"	5259	"	"	"	Bar	422 1799
"	"	"	"	204	"	"	"	Bar	422 1799
"	"	"	"	24246	"	"	"	Bar	422 1799
"	"	"	"	5250	"	"	"	Bar	422 1799
"	"	"	"	500	"	"	"	Bar	422 1799
"	"	"	"	45 1346	"	"	"	Bar	422 1799
"	"	"	"	46 125	"	"	"	Bar	422 1799
"	"	"	"	46 125	"	"	"	Bar	422 1799
"	"	"	Bar	1094 29212	"	"	"	Bar	422 1799
"	"	"	Bar	1104 141467	"	"	"	Bar	422 1799
"	"	"	Bar	46 140	"	"	"	Bar	422 1799
"	"	"	"	392	"	"	"	Bar	422 1799
"	"	"	"	47 1500	"	"	"	Bar	422 1799
"	"	"	"	360	"	"	"	Bar	422 1799
"	"	"	"	1540	"	"	"	Bar	422 1799
"	"	"	"	150	"	"	"	Bar	422 1799
"	"	"	"	219	"	"	"	Bar	422 1799
"	"	"	Bar	1114 519645	"	"	"	Bar	422 1799
"	"	"	Bar	40 2730	"	"	"	Bar	422 1799
"	"	"	"	4295410	"	"	"	Bar	422 1799

4295410

Mile) Machinery

1903 May	By Amg fnd	1903 May	By Amg fnd	1903 May	By Amg fnd
21	band	70	9980	107	96460 10
22			340		
23			1476		
24			637		
25			345		
26		71	919		
27			3291		
28			4925		
29			410		
30			93		
31			1400		
			100		
			4772		
			2100		
		72	175		
			300		
			3402		
			6465		
			6300		
24	By Amg	129	14220 80		
25	By Amg	130	44515		
26	band	72	77362		
27		73	46000		
28			11521		
29			3925		
30	By Amg	132	30954		
31	band	73	21930		
			11200		
		74	7254		
			11168		
			1044		
			533		
			6007		
19	band	132	240		
20	By Amg		460949		
21	band	133	136837		
22	By Amg		165457		
23	band	75	5054		
24			5320		
25			6702		
26			33320		
27			3668		
28	band	135	440		
29			4766810		
			476460 10		

Mile) Machinery

1903 April	By Amg	1903 April	By Amg	1903 April	By Amg
1	band	10	47640	10	47640
2	band	11	142500	11	142500
3	band	12	163744	12	163744
4	band	13	534	13	534
5	band	14	249152	14	249152
6	band	15	23478	15	23478
7	band	16	15930	16	15930
8	band	17	347500	17	347500
9	band	18	12631	18	12631
10	band	19	1500	19	1500
11	band	20	394	20	394
12	band	21	66	21	66
13	band	22	461	22	461
14	band	23	3095	23	3095
15	band	24	1980	24	1980
16	band	25	100	25	100
17	band	26	2565	26	2565
18	band	27	400	27	400
19	band	28	304	28	304
20	band	29	400	29	400
21	band	30	840	30	840
22	band	31	1107	31	1107
23	band	32	1300	32	1300
24	band	33	750	33	750
25	band	34	6200	34	6200
26	band	35	644	35	644
27	band	36	1425	36	1425
28	band	37	400	37	400
29	band	38	112	38	112
30	band	39	230	39	230
31	band	40	15693	40	15693
	band	41	2422	41	2422
	band	42	445	42	445
	band	43	124400	43	124400
	band	44	26551	44	26551
	band	45	29041	45	29041
	band	46	402500	46	402500
	band	47	41275534	47	41275534
	band	48	3000	48	3000
	band	49	459	49	459
	band	50	10477	50	10477
	band	51	1023	51	1023
	band	52	14255104	52	14255104
	band	53	561	53	561
	band	54	476460 10	54	476460 10

New Machinery

1923 May			1923 May		
1	30 Cows feed	1574904772	11	by Buchanan & Co	1450 5553
12	band	222 36	12	by Buchanan & Co	147 165
13		13300	13	by Buchanan & Co	1574 3536
		7565	14	by Buchanan & Co	1574 3536
		2516			
		19471			
		5351			
		24936			
		5761			
		30038			
		16435			
		16524			
14	Wt. machinery	1441 827			
	band	1453 49452			
		103 464			
		35024			
		326			
		44 1110			
		2020			
		871			
		21449			
		529			
		2215			
		118			
		17944			
		1769			
		4257			
16	Dr. Buchanan & Co	14244080			
	band	152296			
17	band	16 3943			
		645			
		4157			
18	by Buchanan & Co	147 234672			
19	band	8175920			
20	band	147 234672			
		2247			
21	Wt. machinery	149 46452			
22	band	150 227315			
23	band	150 227315			
24	band	150 227315			
25	band	150 227315			
26	band	150 227315			
27	band	150 227315			
28	band	150 227315			
29	band	150 227315			
30	band	150 227315			
31	band	150 227315			
32	band	150 227315			
33	band	150 227315			
34	band	150 227315			
35	band	150 227315			
36	band	150 227315			
37	band	150 227315			
38	band	150 227315			
39	band	150 227315			
40	band	150 227315			
41	band	150 227315			
42	band	150 227315			
43	band	150 227315			
44	band	150 227315			
45	band	150 227315			
46	band	150 227315			
47	band	150 227315			
48	band	150 227315			
49	band	150 227315			
50	band	150 227315			
51	band	150 227315			
52	band	150 227315			
53	band	150 227315			
54	band	150 227315			
55	band	150 227315			
56	band	150 227315			
57	band	150 227315			
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59	band	150 227315			
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63	band	150 227315			
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67	band	150 227315			
68	band	150 227315			
69	band	150 227315			
70	band	150 227315			
71	band	150 227315			
72	band	150 227315			
73	band	150 227315			
74	band	150 227315			
75	band	150 227315			
76	band	150 227315			
77	band	150 227315			
78	band	150 227315			
79	band	150 227315			
80	band	150 227315			
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83	band	150 227315			
84	band	150 227315			
85	band	150 227315			
86	band	150 227315			
87	band	150 227315			
88	band	150 227315			
89	band	150 227315			
90	band	150 227315			
91	band	150 227315			
92	band	150 227315			
93	band	150 227315			
94	band	150 227315			
95	band	150 227315			
96	band	150 227315			
97	band	150 227315			
98	band	150 227315			
99	band	150 227315			
100	band	150 227315			

21135206

New Machinery

1923 June			1923 June		
10	30 Cows feed	1574904772	23	by Buchanan & Co	1550 49210
11	band	157 6730	24	by Buchanan & Co	1550 49210
12		157 6730	25	by Buchanan & Co	1550 49210
13		157 6730	26	by Buchanan & Co	1550 49210
14		157 6730	27	by Buchanan & Co	1550 49210
15		157 6730	28	by Buchanan & Co	1550 49210
16		157 6730	29	by Buchanan & Co	1550 49210
17		157 6730	30	by Buchanan & Co	1550 49210
18		157 6730			
19		157 6730			
20		157 6730			
21		157 6730			
22		157 6730			
23		157 6730			
24		157 6730			
25		157 6730			
26		157 6730			
27		157 6730			
28		157 6730			
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36		157 6730			
37		157 6730			
38		157 6730			
39		157 6730			
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42		157 6730			
43		157 6730			
44		157 6730			
45		157 6730			
46		157 6730			
47		157 6730			
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93		157 6730			
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96		157 6730			
97		157 6730			
98		157 6730			
99		157 6730			
100		157 6730			

57644539

Steel Administration

1921	25	To Balance	111,735.21	24	Aug 9	By By due	101.1	4075
		Card	51.	2500	25		103.1	17.00
				100	Sept 1		105.1	2.45
	29			13.42	20		107.4	6.62
				16.50	29	Card	41.1	5.55
				17.00	Oct 7	Balance	441	7774.12
				475				
				1.53				
Aug 5			53.	7261.83				
				1196				
				13.50				
				1500				
				6.15				
				675				
	9	By due	101.1	500.59				
	11	Post born	102.1	18.77				
	21	Card	14.	25				
	23			29.00				
				24.00				
				4.50				
			15.	19.42				
				15.00				
				12.66				
	25	By due	103.1	734.25				
	26	Card	15.	34				
	27		15.	6.00				
Oct 1		By due	105.1	754.25				
		Card	12.	14.19				
				25.69				
				115.16				
			19.	25				
	10	Post born	106.1	25.14				
	16	Card	19.	22				
	19		19.	500.00				
				225.00				
				105				
				260				
20		By due	107.1	725.51				
Aug 2		Card	12.	716.26				
	4			14.19				
				160.59				
				66.1				
			13.	577.4				
				45.55				
	7			7777.45				

7777.45

Steel Administration

1921	7	To Balance	441,770.94	05	Oct 1	By By due	109.1	1.80
		Card	43.	2.50	22		111.1	2.15
				2375	23	Card	44.1	4.99
			44.	670	Oct 7	By due	112.1	15.65
				24.25	12	Card	50.1	56.00
				47.47		By due	114.1	9.50
				18.07	25	Post born	114.1	169.15
				30	Oct 5	Balance	442	7790.69
				13.00				
				1.62				
			45.	46.00				
				7.20				
				3.20				
				2.75				
		By due	109.1	623.25				
	11	Post born	110.1	19.12				
	16	Card	46.	41.25				
				103.39				
	18			3.24				
				6.60				
				56.20				
	21			6.00				
			47.	1.00				
				2.47				
				175				
				2.00				
				16.60				
				5.25				
				11.00				
				3.50				
	12	By due	111.1	591.66				
	14	Card	47.	2.01				
				25.10				
	17		19.	2.20				
Oct 27		By due	112.1	769.25				
	28	Card	50.	100.43				
				26.73				
	12	By due	114.1	575.26				
	14	Card	51.	149.92				
				240.23				
			23149.44	500.00				
			23149.44	216.67				
Dec 5			53	1214.49				
			54	20				
				1215.69				

1215.69

Misc Allowances

1923			1913			1913			
Feb	25	3 Banned	44	16936.14	24	4	By Bus	129	469.66
		Carb	71	295	11	3 Banned		134	2600
			71	2850	20	By Bus		133	2624
				1555	23				444
				2460	20	Carb	74	1076	
				1522	20	By Bus	134	1670	
				1275	11	Shaw's	117	546.78	
				1505	4	Carb	76	5000	
				2496	11	By Bus	134	24913	
				587	14	By Bus	139	94	
				100	15	Carb	76	95	
				60	16	Shaw's	117	546.78	
				200					
				100					
		By Bus	129	64093					
		Carb	76	7092					
Mar	9		73	25000					
	11			500.00					
				500.00					
	14			54					
	13			496					
	14			10475					
	17		74	550					
				12					
	19			722					
	20	By Bus	132	65694					
		Shaw's	134	621					
	23	By Bus	134	76842					
	25	3 Banned		2000					
	21	Carb	74	967					
	26		75	16624					
	27			22					
	31	3 Banned	135	1710					
		Carb	75	5390					
Apr	9		76	194170					
				14144					
	11		134	65905					
	13	Shaw's	139	1594					
		Carb	76	15275					
	15			10010					
	16			2500					
	7			71					
	14		77	450					
				20445					
				9479192					

9247792

Misc Allowances

1923			1913			1913			
Feb	11	3 Banned	144	957695	21	3	By Bus	141	36571
		Carb	77	5225	2			143	15676
				5000	14	3 Banned		119	942954
	23			645					
				700					
				144					
				460					
				3600					
				200					
				1600					
				79					
				434					
				211					
				600					
				1247					
				2430					
				331					
				1829					
				700					
				2934					
				1200					
		By Bus	144	84762					
	24	Carb	74	900					
	27		929294						
	27		92936						
	27		92947						
May	1		92960						
	6		92970						
			100						
			4232						
		By Bus	143	95264					
		Carb	74	30					
	11			12764					
	12			2425					
	13			1592					
				530					
				600					
				565					
	14	By Bus	144	13544					
		Shaw's	145	4760					
		Carb	74	1715					
				1496					
				1000					
				2509					
				75					
				325					
				33					
				112					

469

944556

469

944556

Store Room

1902 Aug			1902 Aug			1902 Aug			1902 Aug		
5	3	Am. fed	377	149	191	9	6	Bay (new)	101	1	25
		bal	53		9.50		11	Bay (new)	102	320	599
					35.17		50	Bay (new)	103	320	599
					4.45				104	320	599
					36.52				105	320	599
					33.69				106	320	599
					35.69				107	320	599
9		Bay (new)	101	149	74				108	320	599
21		bal	54		13.41				109	320	599
23					2.95				110	320	599
					9.50				111	320	599
					7.50				112	320	599
					2.50				113	320	599
					2.53				114	320	599
			35		11.25				115	320	599
					33.42				116	320	599
					7.25				117	320	599
					13.73				118	320	599
					7.25				119	320	599
					6.08				120	320	599
					4.41				121	320	599
					13.05				122	320	599
25		Bay (new)	103	113	31				123	320	599
26		bal	35		20.69				124	320	599
27					272				125	320	599
					7045				126	320	599
					940				127	320	599
			36		544				128	320	599
					6.25				129	320	599
					3.90				130	320	599
					5.64				131	320	599
					5.77				132	320	599
					4.65				133	320	599
					52.00				134	320	599
					1.59				135	320	599
					6.00				136	320	599
					6.42				137	320	599
					7.00				138	320	599
					41.00				139	320	599
					29.07				140	320	599
					35.43				141	320	599
30					90.79				142	320	599
					71.32				143	320	599
					6.30				144	320	599
					31.64				145	320	599

914494

Store Room

1902 Aug			1902 Aug			1902 Aug			1902 Aug		
50	3	Bacon	44	59	74	10	10	Bay (new)	101	17	72
		bal	57		250	45	10	Bay (new)	102	17	72
					145	10	10	Bay (new)	103	17	72
					159	64			104	17	72
					9.73				105	17	72
					74	51			106	17	72
					240	25			107	17	72
City	1	Bay (new)	105	17	72				108	17	72
		bal	58		3.49				109	17	72
					7.49				110	17	72
16					59	14	47		111	17	72
19					420	91			112	17	72
					11	124			113	17	72
					105	74			114	17	72
					40	63	69		115	17	72
					51	60			116	17	72
					24	35			117	17	72
					73				118	17	72
					14	54			119	17	72
					21	51			120	17	72
					6	53			121	17	72
					30	45			122	17	72
					7	62			123	17	72
					15	00			124	17	72
					5	44			125	17	72
					7	50			126	17	72
					2	47			127	17	72
					41	473			128	17	72
					3	60			129	17	72
					47	52			130	17	72
					22	74			131	17	72
					2	90			132	17	72
					2	71			133	17	72
					20	34			134	17	72
					12	00			135	17	72
					25	00			136	17	72
					9	52			137	17	72
					3	25			138	17	72
					10	4	52		139	17	72
					17	9	29		140	17	72
					42	2	1		141	17	72
					1	27	51		142	17	72
					43	6	00		143	17	72
					20	50			144	17	72
7					19	77	47		145	17	72

977077

Shoeborn

1922 July	27	By Balance	117	7204.74	1922 July	1	By Cash paid	117	9352.7
		bad	43	12525					
				157.17					
				325					
				946					
				1371					
				913					
			44	2261					
				14554					
				19615					
				721					
				1863					
				1200					
				639					
				39070					
				1375					
				4200					
				1934					
				50					
			45	2212					
				8529					
				2932					
				3739					
				5313					
				5152					
				4150					
				11519					
				4590					
				7793					
				85069					
				1562					
				1127					
				694					
				1069					
				694					
				765					
				390					
				165					
				691					
				106					
				144					
				850					
			46	919					
				150					
				9352.7					9352.7

Shoeborn

1922 July	1	By Cash paid	117	9352.7	1922 July	11	By Cash	110	3573.97
		bad	119	9779		21	By Cash		2974
	16	bad	46	1123		27	By Balance	150	7152.63
	18			116.57					
				232					
				75.57					
	21	Wm. J. J. J.	110	20.00					
		bad	46	6.29					
				322					
				6020					
				400					
			47	2795					
				202					
				1747					
				1200					
				1600					
				934					
				943					
				8752					
				860					
				2656					
				433					
				392					
				3750					
				960					
				115					
				264					
				200					
				500					
				35715					
	22	By Cash	111	2540					
	24	bad	47	644					
				6241					
				2310					
				2017					
				1070					
				2394					
				100					
			49	445					
				4363					
				6363					
				667					
				5062					
				577					
				104560					104560

Store Record

1902	Aug 27	3	Bacon	447	7152.63	1902	Dec 6	1/2	Aug 6	1/2	924496
	"	"	Bark	49	1594						
	"	"	"	"	90						
	"	"	"	"	95.42						
Aug	6	"	"	50	1712.15						
	"	"	"	"	1600						
	"	"	"	"	27439						
	"	"	"	"	117.11						
	"	"	"	"	6074						
	"	"	Aug 27	112	9520						
	"	"	Bark	50	1416						
	"	"	Aug 27	114	6580						
	"	"	Bark	51	1544						
	"	"	"	"	21.51						
	"	"	"	"	16.85						
	"	"	"	"	2.48						
	"	"	"	52	1270						
Dec	5	"	"	53	1573.50						
	"	"	"	"	44.03						
	"	"	"	"	69.19						
	"	"	"	"	54100						
	"	"	"	"	3.11						
	"	"	"	"	706						
	"	"	"	"	23.10						
	"	"	"	"	275						
	"	"	"	"	1725						
	"	"	"	"	250						
	"	"	"	"	1505						
	"	"	"	54	247						
	"	"	"	"	2549						
	"	"	"	"	15.10						
	"	"	"	"	770						
	"	"	"	"	700						
	"	"	"	"	340						
	"	"	"	"	482						
	"	"	"	"	2453						
	"	"	"	"	1200						
	"	"	"	"	1050						
	"	"	"	"	410						
	"	"	"	"	63						
	"	"	"	"	1100						
	"	"	"	"	430						
	"	"	"	"	375						
	"	"	"	"	242						
	"	"	"	"	924496						924496

Store Record

1902	1902	1902	1902	1902	1902
Aug 6	3	Aug 6	1/2	Aug 6	1/2
"	"	Bark	54	550	"
"	"	"	55	1492	"
"	"	"	"	2500	"
"	"	"	"	2440	"
"	"	"	"	3597	"
"	"	"	"	4200	"
"	"	"	"	2294	"
"	"	"	"	5655	"
"	"	"	"	7467	"
"	"	"	"	1760	"
"	"	"	"	1277	"
"	"	"	"	7725	"
"	"	"	"	10630	"
"	"	"	"	25293	"
"	"	"	"	3265	"
"	"	"	"	1926	"
"	"	"	"	11	7575
"	"	"	"	55	2276
"	"	"	"	56	1200
"	"	"	"	56	670
"	"	"	"	"	334
"	"	"	"	"	455
"	"	"	"	"	394
"	"	"	"	"	5770
"	"	"	"	"	5204
"	"	"	"	"	315
"	"	"	"	"	5739
"	"	"	"	"	165
"	"	"	"	"	244
"	"	"	"	"	2445
"	"	"	"	"	4444
"	"	"	"	"	475
"	"	"	"	"	478
"	"	"	"	"	1053
"	"	"	"	"	1223
"	"	"	"	"	400
"	"	"	"	"	1097
"	"	"	"	"	240
"	"	"	"	"	374
"	"	"	"	"	1030
"	"	"	"	"	526
"	"	"	"	"	2325
"	"	"	"	"	102
"	"	"	"	"	1056253

Stone Room

1901 Jan	15	2	Basement	45	7502	36	1902 Jan	13	1/2	1/2	120	05
			Bank	51	1395	17		12			125	40
					324	52		14		Chambers	1154	575
	17				75			21		Basement	55	7932
	22				2522							
					1060							
				59	261							
					470							
					795							
					623							
					1371							
					1464							
					1215							
					1210							
					975							
					696							
					450							
					1250							
				60	50	T						
					1336							
	23		1/2	120	10497							
	24		Bank	60	4000							
					24							
					55							
	30				1440							
					989							
					150							
	12		1/2	125	10222							
	16		Bank	62	2352							
					9444							
					2675							
					4129							
	21			63	504							
					33940							
					5064							
					252							
					4250							
					1700							
					3695							
					6003							
					2319							
					5297							
					7423							
					3622							
					2370							
					9529	04						

952904

Stone Room

1901 Jan	21	2	Basement	152	9932	04	1902 Jan	11	1/2	1/2	1760	47
			Bank	68	6375							
	22			64	2175							
	24		1/2	126	9645	1/2						
			Bank	64	1751							
	25				2212							
	30				3551							
					3047							
					2961							
				65	2490							
					144							
					250							
					150							
					1069							
					267							
					562							
					3434							
					2464							
					322							
					928							
					656							
					1480							
					100							
					140							
					3773							
					1553							
	24			66	8435	50						
	7				975							
					1266							
	10			47	730							
	11				462							
					1350							
					439							
					960							
					3240							
					750							
					2250							
					1000							
					510							
					2160							
				64	965							
					6070							
					1000							
					500							
					1760	47						

176047

Shed Board

1901	11	2	Any for	180	760.47	1901	12	of	Shed	129	1249.79
27			board	64	219.16	27		of	Shed	129	1765.14
					9116						
					103.50						
					17.50						
					135.91						
					104.17						
					13.15						
					44.90						
13				69	54.66						
16					11.75						
					11.05						
					158.25						
11			Any for	70	97.563						
21			board		22.57						
15					11.50						
					2.40						
					20.44						
					11.09						
					35.75						
					1.90						
					5.40						
				71	12.20						
					16.20						
					1.65						
					2.90						
					7.4						
					5.69						
					7.50						
					5.49						
					17.00						
					5.70						
					5.70						
					4.50						
					1.25						
				72	5.40						
					10.60						
					4.14						
					7.50						
					2.60						
					14.40						
					6.26						
					9.14						
					5.90						
					19012.73						
					10012.93						

1001292

Shed Board

1901	25	3	Bar	114	763.14	1901	26	of	Shed	132	1282.60
			Any		129	104.75	13			139	751.57
					151	157.72	23		Bar	132	969.37
					73	5.90					
					63.00						
					119.34						
					67.60						
					4.29						
					74.60						
					42.48						
					120.62						
					1.01						
					210.22						
					16.05						
					5.04						
					132	106.60					
					134	75.44					
					75	12.45					
					10.29						
					29.54						
					137	704.54					
					76	2.66					
					6.29						
					134	64.65					
					76	43.26					
					77	5.45					
					57.44						
					729						
					111						
					78	5.74					
					15.94						
					52.13						
					2.00						
					12.62						
					11.44						
					12.43						
					3.25						
					14.20						
					9.65						
					1.43						
					35.57						
					23.66						
					5.42						
					2.40						
					12677.84						

12677

Stearn Plank

1911	24	2	Butane	17	7894	1912	24	2	Butane	17	7894	1913	24	2	Butane	17	7894	1914	24	2	Butane	17	7894	1915	24	2	Butane	17	7894	1916	24	2	Butane	17	7894	1917	24	2	Butane	17	7894	1918	24	2	Butane	17	7894	1919	24	2	Butane	17	7894	1920	24	2	Butane	17	7894	1921	24	2	Butane	17	7894	1922	24	2	Butane	17	7894	1923	24	2	Butane	17	7894	1924	24	2	Butane	17	7894	1925	24	2	Butane	17	7894	1926	24	2	Butane	17	7894	1927	24	2	Butane	17	7894	1928	24	2	Butane	17	7894	1929	24	2	Butane	17	7894	1930	24	2	Butane	17	7894	1931	24	2	Butane	17	7894	1932	24	2	Butane	17	7894	1933	24	2	Butane	17	7894	1934	24	2	Butane	17	7894	1935	24	2	Butane	17	7894	1936	24	2	Butane	17	7894	1937	24	2	Butane	17	7894	1938	24	2	Butane	17	7894	1939	24	2	Butane	17	7894	1940	24	2	Butane	17	7894	1941	24	2	Butane	17	7894	1942	24	2	Butane	17	7894	1943	24	2	Butane	17	7894	1944	24	2	Butane	17	7894	1945	24	2	Butane	17	7894	1946	24	2	Butane	17	7894	1947	24	2	Butane	17	7894	1948	24	2	Butane	17	7894	1949	24	2	Butane	17	7894	1950	24	2	Butane	17	7894	1951	24	2	Butane	17	7894	1952	24	2	Butane	17	7894	1953	24	2	Butane	17	7894	1954	24	2	Butane	17	7894	1955	24	2	Butane	17	7894	1956	24	2	Butane	17	7894	1957	24	2	Butane	17	7894	1958	24	2	Butane	17	7894	1959	24	2	Butane	17	7894	1960	24	2	Butane	17	7894	1961	24	2	Butane	17	7894	1962	24	2	Butane	17	7894	1963	24	2	Butane	17	7894	1964	24	2	Butane	17	7894	1965	24	2	Butane	17	7894	1966	24	2	Butane	17	7894	1967	24	2	Butane	17	7894	1968	24	2	Butane	17	7894	1969	24	2	Butane	17	7894	1970	24	2	Butane	17	7894	1971	24	2	Butane	17	7894	1972	24	2	Butane	17	7894	1973	24	2	Butane	17	7894	1974	24	2	Butane	17	7894	1975	24	2	Butane	17	7894	1976	24	2	Butane	17	7894	1977	24	2	Butane	17	7894	1978	24	2	Butane	17	7894	1979	24	2	Butane	17	7894	1980	24	2	Butane	17	7894	1981	24	2	Butane	17	7894	1982	24	2	Butane	17	7894	1983	24	2	Butane	17	7894	1984	24	2	Butane	17	7894	1985	24	2	Butane	17	7894	1986	24	2	Butane	17	7894	1987	24	2	Butane	17	7894	1988	24	2	Butane	17	7894	1989	24	2	Butane	17	7894	1990	24	2	Butane	17	7894	1991	24	2	Butane	17	7894	1992	24	2	Butane	17	7894	1993	24	2	Butane	17	7894	1994	24	2	Butane	17	7894	1995	24	2	Butane	17	7894	1996	24	2	Butane	17	7894	1997	24	2	Butane	17	7894	1998	24	2	Butane	17	7894	1999	24	2	Butane	17	7894	2000	24	2	Butane	17	7894	2001	24	2	Butane	17	7894	2002	24	2	Butane	17	7894	2003	24	2	Butane	17	7894	2004	24	2	Butane	17	7894	2005	24	2	Butane	17	7894	2006	24	2	Butane	17	7894	2007	24	2	Butane	17	7894	2008	24	2	Butane	17	7894	2009	24	2	Butane	17	7894	2010	24	2	Butane	17	7894	2011	24	2	Butane	17	7894	2012	24	2	Butane	17	7894	2013	24	2	Butane	17	7894	2014	24	2	Butane	17	7894	2015	24	2	Butane	17	7894	2016	24	2	Butane	17	7894	2017	24	2	Butane	17	7894	2018	24	2	Butane	17	7894	2019	24	2	Butane	17	7894	2020	24	2	Butane	17	7894	2021	24	2	Butane	17	7894	2022	24	2	Butane	17	7894	2023	24	2	Butane	17	7894	2024	24	2	Butane	17	7894	2025	24	2	Butane	17	7894	2026	24	2	Butane	17	7894	2027	24	2	Butane	17	7894	2028	24	2	Butane	17	7894	2029	24	2	Butane	17	7894	2030	24	2	Butane	17	7894	2031	24	2	Butane	17	7894	2032	24	2	Butane	17	7894	2033	24	2	Butane	17	7894	2034	24	2	Butane	17	7894	2035	24	2	Butane	17	7894	2036	24	2	Butane	17	7894	2037	24	2	Butane	17	7894	2038	24	2	Butane	17	7894	2039	24	2	Butane	17	7894	2040	24	2	Butane	17	7894	2041	24	2	Butane	17	7894	2042	24	2	Butane	17	7894	2043	24	2	Butane	17	7894	2044	24	2	Butane	17	7894	2045	24	2	Butane	17	7894	2046	24	2	Butane	17	7894	2047	24	2	Butane	17	7894	2048	24	2	Butane	17	7894	2049	24	2	Butane	17	7894	2050	24	2	Butane	17	7894	2051	24	2	Butane	17	7894	2052	24	2	Butane	17	7894	2053	24	2	Butane	17	7894	2054	24	2	Butane	17	7894	2055	24	2	Butane	17	7894	2056	24	2	Butane	17	7894	2057	24	2	Butane	17	7894	2058	24	2	Butane	17	7894	2059	24	2	Butane	17	7894	2060	24	2	Butane	17	7894	2061	24	2	Butane	17	7894	2062	24	2	Butane	17	7894	2063	24	2	Butane	17	7894	2064	24	2	Butane	17	7894	2065	24	2	Butane	17	7894	2066	24	2	Butane	17	7894	2067	24	2	Butane	17	7894	2068	24	2	Butane	17	7894	2069	24	2	Butane	17	7894	2070	24	2	Butane	17	7894	2071	24	2	Butane	17	7894	2072	24	2	Butane	17	7894	2073	24	2	Butane	17	7894	2074	24	2	Butane	17	7894	2075	24	2	Butane	17	7894	2076	24	2	Butane	17	7894	2077	24	2	Butane	17	7894	2078	24	2	Butane	17	7894	2079	24	2	Butane	17	7894	2080	24	2	Butane	17	7894	2081	24	2	Butane	17	7894	2082	24	2	Butane	17	7894	2083	24	2	Butane	17	7894	2084	24	2	Butane	17	7894	2085	24	2	Butane	17	7894	2086	24	2	Butane	17	7894	2087	24	2	Butane	17	7894	2088	24	2	Butane	17	7894	2089	24	2	Butane	17	7894	2090	24	2	Butane	17	7894	2091	24	2	Butane	17	7894	2092	24	2	Butane	17	7894	2093	24	2	Butane	17	7894	2094	24	2	Butane	17	7894	2095	24	2	Butane	17	7894	2096	24	2	Butane	17	7894	2097	24	2	Butane	17	7894	2098	24	2	Butane	17	7894	2099	24	2	Butane	17	7894	2100	24	2	Butane	17	7894	2101	24	2	Butane	17	7894	2102	24	2	Butane	17	7894	2103	24	2	Butane	17	7894	2104	24	2	Butane	17	7894	2105	24	2	Butane	17	7894	2106	24	2	Butane	17	7894	2107	24	2	Butane	17	7894	2108	24	2	Butane	17	7894	2109	24	2	Butane	17	7894	2110	24	2	Butane	17	7894	2111	24	2	Butane	17	7894	2112	24	2	Butane	17	7894	2113	24	2	Butane	17	7894	2114	24	2	Butane	17	7894	2115	24	2	Butane	17	7894	2116	24	2	Butane	17	7894	2117	24	2	Butane	17	7894	2118	24	2	Butane	17	7894	2119	24	2	Butane	17	7894	2120	24	2	Butane	17	7894	2121	24	2	Butane	17	7894	2122	24	2	Butane	17	7894	2123	24	2	Butane	17	7894	2124	24	2	Butane	17	7894	2125	24	2	Butane	17	7894	2126	24	2	Butane	17	7894	2127	24	2	Butane	17	7894	2128	24	2	Butane	17	7894	2129	24	2	Butane	17	7894	2130	24	2	Butane	17	7894	2131	24	2	Butane	17	7894	2132	24	2	Butane	17	7894	2133	24	2	Butane	17	7894	2134	24	2	Butane	17	7894	2135	24	2	Butane	17	7894	2136	24	2	Butane	17	7894	2137	24	2	Butane	17	7894	2138	24	2	Butane	17	7894	2139	24	2	Butane	17	7894	2140	24	2	Butane	17	7894	2141	24	2	Butane	17	7894	2142	24	2	Butane	17	7894	2143	24	2	Butane	17	7894	2144	24	2	Butane	17	7894	2145	24	2	Butane	17	7894	2146	24	2	Butane	17	7894	2147	24	2	Butane	17	7894	2148	24	2	Butane	17	7894	2149	24	2	Butane	17	7894	2150	24	2	Butane	17	7894	2151	24	2	Butane	17	7894	2152	24	2	Butane	17	7894	2153	24	2	Butane	17	7894	2154	24	2	Butane	17	7894	2155	24	2	Butane	17	7894	2156	24	2	Butane	17	7894	2157	24	2	Butane	17	7894	2158	24	2	Butane	17	7894	2159	24	2	Butane	17	7894	2160	24	2	Butane	17	7894	2161	24	2	Butane	17	7894	2162	24	2	Butane	17	7894	2163	24	2	Butane	17	7894	2164	24	2	Butane	17	7894	2165	24	2	Butane	17	7894	2166	24	2	Butane	17	7894	2167	24	2	Butane	17	7894	2168	24	2	Butane	17	7894	2169	24	2	Butane	17	7894	2170	24	2	Butane	17	7894	2171	24	2	Butane	17	7894	2172	24	2	Butane	17	7894	2173	24	2	Butane	17	7894	2174	24	2	Butane	17	7894	2175	24	2	Butane	17	7894	2176	24	2	Butane	17	7894	2177	24	2	Butane	17	7894	2178	24	2	Butane	17	7894	2179	24	2	Butane	17	7894	2180	24	2	Butane	17	7894	2181	24	2	Butane	17	7894	2182	24	2	Butane	17	7894	2183	24	2	Butane	17	7894	2184	24	2	Butane	17	7894	2185	24	2	Butane	17	7894	218
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1893	Feb	16	3	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100	Amey find	149	443	44	12	100
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Steam Plant

1901	date	to	3	Amey, Fred	112.00	997.75	7	3	band	12	100
				band	75	26.50			band	105	105.50
					79	33.66					
						4.00					
						9.03					
						2.05					
						50					
						10.97					
						9.62					
					50	2.10					
						2.00					
						20.97					
				Boy band	141	442.44					
				band	141	12.00					
						25					
					12	1377.82					
				Boy band	141	40.40					
				band	122	25					
					13	33.77					
						90					
						45					
						1222					
				Thurs band	145	44.21					
				band	14	40.00					
						13.56					
						10.30					
					14	1.00					
						3.15					
						53.1					
					15	12.77					
						3.45					
						792					
				Whitely, Fred	145	720					
				band	14	72					
						25					
						792					
				Boy band	147	53.75					
				band	147	7.92					
					17	7.92					
						11.1					
				Not in band	149	55.65					
				off, do not	150	79.75					
				Boy band	151	45.75					
				band	152	50.75					
				band	152	53.66					
				band	152	67.10					

Cul System

1902	2	Land	42	6001	25	25	25	130	445	15
1903	2	Land	110	6054	25	25	25	130	445	15
1904	2	Land	50	6055	25	25	25	130	445	15
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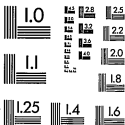
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